

Gerald F. Condon
(772)349-2221
gcondon@knights.ucf.edu

I am a hands-on, innovative software developer with over six years' experience designing, testing, integrating, and implementing enterprise level applications. I hold CIW Javascript and MongoDB certifications, and majored in Aerospace Engineering, and minored in Computer Science at UCF.

I recently finished up my contract at Seminole County Sheriff's Office, where I developed integration strategies and prepared software migrations from ASP.NET MVC applications to ASP.NET core and Node/Angular frameworks. Main duties included subversion code technical debt analysis, developed unit test environment and strategies, generated deployment best practices and created code health initiative plans when dealing with code from various code vendors and systems. Software at the Sheriff's Office has been around for over 20 years and it requires finesse to add new features without disrupting existing features.

Prior to the Seminole County Sheriff's Office, I provided design/integration development expertise at Universal Studios for the park's Microservices and Admin Configuration Tool initiatives. Working on the Application Architecture team, I leveraged MVC design patterns for development within an Agile sprint environment. Main duties included building out and designing RESTful web services and API's utilizing JSON, JavaScript, NodeJS, StrongLoop, Mocha, ReadyAPI, ES6, ES5 and SoapUI as well as reusable & testable modules / components for current codebase. Working in a continuous integration environment, I automated the TDD production process via task runners, scripts, and wrote non-blocking code with multi-threading as needed.

Prior to Universal, I worked on the Launch Services team at NASA, where I built out software/programs for several projects, including an overhaul of the team's simulation computer program and web application GFSSP, which analyzes real-time big data of flow rate, pressure, temperature etc. of a satellite's fluid network. I utilized Javascript, Node, MongoDB, HTML5, CSS3, Canvas, CouchDB, SQL, noSQL and other technologies while at NASA, and concurrently consulted part-time with Intellifuel Logistics, where I utilized LAMP stacks and MySQL systems.

I solely engineered, built, and architected a web/mobile application and database software platform for Picerne Housing Development, a large real estate management group in Altamonte Springs. Starting the project in the summer of 2016, I wrote my own NodeJS framework and utilized Smart Housing technologies to create a program that can update locks of units for all Picerne apartment complexes in less than 4 minutes. My full cycle design included creating the framework, architecture, interface, mobile configuration, algorithms, cloud integration, and more for this initiative; using various technologies including Java/Javascript, PHP, Bootstrap, REST, HTML5, CSS3, jQuery, AWS, and more.

I am a great communicator, leader and documenter. I am able to write contracts and flow documentations. I am also able to train and manage development efforts. I am available to interview and start immediately.

Jerry C

LinkedIn: [linkedin.com/in/gerald-condon-76a60254](https://www.linkedin.com/in/gerald-condon-76a60254)

GitHub: <https://github.com/JerryCFox>

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PROFESSIONAL OBJECTIVE

Dynamic Engineer/Developer seeking a new opportunity with a company that isn't afraid to try new things and benefit from being on the cutting edge. Creative solutions leader that will utilize existing abilities and grow knowledge base to be able to spearhead new and novel technologies.

EDUCATION AND CERTIFICATIONS

- Bachelors of Science, University of Central Florida, Orlando FL
 - Major: Aerospace Engineering Minor: Computer Science
- International Baccalaureate (IB) Diploma, Lincoln Park Academy, Fort Pierce FL
- Certifications: CIW Javascript Specialist, MongoDB Database Specialist
- 5 Year NASA Engineering Employee Award
- INTEL International Science & Engineering Finalist (2010)

TECHNICAL HIGHLIGHTS

- 6+ years' experience: SQL database, Angular 1, Angular 2, Bootstrap 3, Bootstrap 4, MongoDB/NoSQL databases and Hybrid NoSQL structures; map-reduce frameworks such as Hadoop and aggregate framework; AWS/Azure interfacing (set up hundreds of VMs: docker- linux shells with REST API interfacing and network security).
- 2+ years' experience Image Subject Computer Vision AI, with developed applications used for object recognition and cancer research.
- Developed self-written (Nodejs, Map-reduce, big data TB, thousands of Ivy Bridge Cores) Image Recognition Cloud Grid System written on Amazon Web Services, with dedicated computing by UCF Clusters.

SOFTWARE, LANGUAGES & PROFICIENCIES

Data/Database: MySQL, NoSQL, SQL, SQLite, MongoDB, Hadoop, CouchDB, MATLAB, R, MapReduce, EXPRESS, Stored Procedure Management and Control

Cloud Platform: Amazon Web Services (AWS), EC2, S3, Azure, Clarizen, JIRA, Git, Subversion

API/Scripting: REST, SOAP, CUDA, OpenCL, Computer Vision, ECMA, AJAX, XML, SSL (Secure Socket Layer), Websocket

Programming: Java, PHP, Javascript, Angular, Node, Laravel, Lua, Python, Groovy, Fortran 77, .NET, C, C++, C#, LAMP/MEAN stacks, HTML5, CSS3, jQuery, Sockets, ASP.NET, Angular 1, Angular 2, Knockout, Bootstrap 3, Bootstrap 4, Swagger

Engineering: STAR-CCM+, Autodesk, CFD, AutoCAD, Pro-E, SolidWorks, NI LabView, GFSSP, Control Theory

Electronic: Vehicle Tracking, Flight Computers, PID Attitude Control, Env Control IOT MSP430, ESP8266, ATMEL328, PIC, MIPS

Manufacturing: Eagle, Subtractive CNC, Additive CNC, PCB development, Failure Analysis, G-code

PROFESSIONAL EXPERIENCE

Seminole County Sheriff's Office Software Developer (Contractor)

July 2017 – Oct 2017

Developed integration strategies and prepared software migrations from ASP.NET MVC applications to ASP.NET core and Node/Angular frameworks. The Seminole County Sheriff's Office uses a Microsoft stack with historical code inherited processes managing all aspects of Seminole and Orange (Orlando) counties' operations including Computer Aided Dispatch, AVL vehicle tracking and RMS software. Responsibilities included:

- Subversion code technical debt analysis.
- Developed unit test environment and strategies.
- Generated deployment best practices.
- Created code health initiative plans.

Universal Studios, Orlando FL Software Developer (Contractor)

Dec 2016 – Mar 2017

Developer for the Application Architecture team – brought on for the park's Microservices integration and Admin Configuration Tool initiatives. Leveraged MVC design patterns for development within an Agile sprint environment. Responsibilities included:

- SDLC deploy on design/integration solutions for both server-side and client-side web applications.
- Building RESTful web services / APIs: design and integration using JSON services and NodeJS.
- Creating reusable & testable modules / components for current codebase using JavaScript, NodeJS, Angular, etc.
- Automating TDD production process builds via task runners and scripts. Writing non-blocking code with multi-threading as needed.
- Ensuring structure and maintainability of code into component folders.
- Creating configuration, build, and test scripts for Continuous Integration environments.
- Participating in scrum and delivery meetings to communicate with vendors/stakeholders in project planning requirements for design and development.
- Supporting the testing, debugging, and refining phases as needed. Leading code reviews for delivery team.
- Developing block diagrams and logic flow charts, and preparing technical user/program level documentation.

Picerne Development, Altamonte FL
Web Architect Consultant (part-time remote)

June 2016 –Nov 2016

- Full stack web application development with customized IOT REST/Socket framework and scalable database/mobile alternative for Smart Housing complexes.
- Utilized Smart Housing technologies to create program that can update locks of units for all complexes in less than 4 minutes.
- Full cycle design: framework, architecture, interface, mobile configuration, algorithms, cloud integration, etc. <https://www.iqueue.com/#0>
- **Technologies:** Node, MongoDB, AWS, REST, Smartapps, PHP, NoSQL, SQL, LAMP/MEAN stack, Java, HTML5, CSS3, Sockets, jQuery

Intellifuel Logistics, Cape Canaveral FL
Data Engineer (part-time)

Jan 2015 – Jan 2016

- Provide analytics and Big Data computation solutions powered by LAMP stacks to improve national petroleum fueling distribution and oil distribution with national security and anti-terrorism technologies.
- Utilizing MySQL systems: TB's of Data, thousands of queries an hour.
- Split/Mirror/Load Distributed MySQL installments.

NASA: Launch Services Program, Kennedy Space Center FL
Engineer/Programmer

May 2010 – May 2016

- Engineer/Programmer for operations and checkout of satellite payloads and rocket safety.
- Developed CFD simulation software for Apollo Fluid State Solver migration project.
 - Ported old outdated NASA Fortran code and converted it to OOP Java code lines.
 - Engineered AWS integration.
- Developed Fluid Network Simulation Software written in Fortran; designed to handle multiple users simultaneously on same project.
 - GFSSP: general-purpose computer program for analyzing steady state and time-dependent flow rate, pressure, temperature and concentrations in a complex flow network.
 - Technologies: Java, Node, Angular, MongoDB, Sockets, HTML5, CSS3, Canvas
 - <https://gfssp.msfc.nasa.gov/>
- Sprinkler Weather Analytics project (12 months)
 - System that unifies weather data from multiple cities to coordinate trucking distribution routes based on avoiding weather patterns.
 - Single Developer : Node, Java, PHP, MySQL, NoSQL, REST
- Finite Differencing Heat Transfer Computation Engine project (2 months)
 - Used Javascript in scientific computation to resolute heat transfer on heat-sinks.
 - Single Developer: Nodejs, In Memory, Computation Engine using Threading.
 - Designed coordinating graphs and charts in browser using combined jqPlot and custom made modules.

ADDITIONAL EXPERIENCE

University of Central Florida, Orlando FL
Database/Web Developer

Jan 2012-Present

- Cloud Artificial Intelligence
 - Image Subject Computer Vision AI, with applications to object recognition and cancer cell research.
 - Cloud Grid System written on AWS, with dedicated computing by UCF Clusters.
 - Nodejs, Angular, MapReduce, Ivy Bridge Cores, etc.
- FSGC REVSS Atmospheric Spacecraft
 - Integration development/design of reusable CubeSat satellite atmospheric sensing probe; launching in 2018 on Commercial Xcor Lynx spacecraft.
- Work Force Central Florida of UCF Excel Program 2012
 - Designed and Built High Altitude Weather Balloon flight computers for NASA Education using PIC processors and Hand Built Circuit Boards.