# Jacob Bryan

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## SUMMARY

My core specialties are backend web development, DevOps, and rapid prototyping. I enjoy building solutions for business problems from the ground up or utilizing developed software. Collaboration is key and I enjoy working with others, building lasting relationships, and writing scalable, high-quality code. My favorite languages are Python and Golang and both for different reasons. Python helps me build fast and quick prototypes from any level of the Software stack. Golang is fast, performant, expressive, scalable, and fun! Leadership and continual learning are my two biggest soft skills. I am always learning something new, especially while I'm on vacation or after hours. My leadership skills have come from years of being an Eagle Scout and helping others around me learn.

## EXPERIENCE

### Senior Software Engineer
**VES LLC**                                                    **August 2022 - Present, Tampa, Florida, United States**
- Supporting the JATF (Join Acquisition Task Force), a Rapid Prototyping lab for SOCOM, by building web applications, microservices, and Infrastructure as Code.
- Built a web application to manage watchlist data to identify when our sensor network found an identity or electronic device. We saw alerts real-time rather than needing manual searches and notifications.
- Test outside vendor technology to identify if the technology will help SOF operators and what is feasible going forward. We save the Department of Defense 7 years and millions of dollars in R&D.
- Work with Junior Engineers to accelerate their learning curve, development time, and improve their critical thinking skills.
- Skills: Python, FastAPI, MongoDB, PostgreSQL, Golang, AWS, Docker, MQTT, Vagrant, Ansible, Terraform, and VirtualBox.

### Software Engineer
**Arcarithm**                                                    **July 2021 - August 2022, Huntsville-Decatur-Albertville Area**
- Developed a modeling and simulation web application for the Missile Defense Agency which allowed them to utilize their vast amounts of dormant data.
- Developed React.js and Cesium code for Modeling and Simulation Efforts for the Army's Anti-UAS System.
- Skills: HTML, CSS, JavaScript, React.js, Golang, MongoDB, Gitlab CI/CD, and TypeScript.

### Application Engineer
**Fusion Technology LLC**March 2021 - June 2021, Mar 2021 - Jun 2021
- Worked with FBI Cyber Division to streamline their industry partner collaborative efforts for identifying threat hunting.
- Developed internal software processes to automate the pipeline for the cyber analysts that would save 2 hours a day.
- Skills: Python, C#, Splunk.

### Program Analyst
**PENTA RESEARCH, INC.**July 2019 - March 2021, Jul 2019 - Mar 2021
- Redesigned and developed a program that saves time and reduces errors by using Python with Open GIS libraries to replace legacy Fortran code.
- Prototyped a Data Fusion application that would ingest an excel template, find the needed data and give it to the MDA analysts saving them 8 hours per run.
- Skills: Git and SVN, SQL, Pandas, Data Preprocessing, and Web Development with React.js.

### Software Engineer
**Radiance Technologies**                                        **February 2016 - June 2017, Huntsville, Alabama, United States**
- Developed a web scraping tool and web application to gather, collect, and best assess open-source intelligence.
- Expanded and developed a flight simulator to save the Army millions of dollars in flight training costs for onboard analysts.
- Helped develop a wargame simulator for analysts to playback and share their simulations.
- Skills: Web Development with React.js, C++, C#, GitHub, XML, Jenkins, Algorithms, Debugging, Data Structures, HTML/CSS, Linux, Digital Ocean, JavaScript, and Python.

### System Engineer
**Rockwell Collins**                                             **August 2014 - December 2015, Cedar Rapids, Iowa, United States**
- Research and Development for the Networking Systems group. Implemented a Mobile Ad-hoc Network Multicast Protocol for our proprietary networking platform.
- Skills: C/C++, Embedded Programming, Networking, and Linux.

## EDUCATION

**Frontend Web Dev Nanodegree**

Udacity.com • Online • 2015

**Bachelor of Science - BS, Computer Engineering**
Embry-Riddle Aeronautical University • Daytona Beach, FL • 2014 • 3.4

## SKILLS

**Industry Knowledge:** Web Applications, Rapid Prototyping, Test Automation, Algorithms, Small and Medium-Sized Enterprises (SME), Debugging, Data Structures, Geospatial Data, API Development, System Administration, Startups, Distributed Systems, Computer Science, Programming, Containerization, Web Architecture, Web Technologies, Asynchronous Programming

**Tools & Technologies:** GitHub, Git, Gitlab CI/CD, FastAPI, Docker, Docker Compose, Ansible, Terraform, Databases, Redis, MongoDB, PostgreSQL, Linux, Amazon Web Services (AWS), Grammarly, XML, Jira/Confluence, REST APIs, SQL, Jenkins, Hugo, Netlify, Airtable

**Interpersonal Skills:** Communication, Agile, Sprints

**Languages:** Python, Golang, TypeScript, JavaScript, HTML/CSS, C#, and C++