NATHAN WHITCOME

Chicago, Illinois 847.346.5775

nathan.whitcome.business@gmail.com

https://www.nathanwhitcome.com

Masters level senior software engineer with 3+ years of professional experience

Software engineer with three years of professional experience specializing in object-oriented programming, full-stack software development, and computer communication algorithms. Seeking a senior position to apply my leadership and software development skills. Strong with interpersonal communication.

TECHNICAL SKILLS

Languages Java, Python, C, JavaScript, SQL, Elixir

Web Technologies HTML, CSS, Angular, Vue.js, React, Node.js, Spring

PROFESSIONAL EXPERIENCE

Software Engineer, Motorola Solutions, Chicago, IL

2022 - 2024

- Developed and tested back-end communication systems for flagship next-generation radios used by customers worldwide in emergency situations with Java, Python, Microsoft Azure, Kubernetes, and Docker.
- Worked in small teams following Agile principles within two-week sprints while keeping proper version control using Git.
- Built services for communicating with environmental sensors and displaying information to customers using Angular and Spring.
- Ensure code quality control through a pipeline testing system using GitHub Actions and local testing with frameworks such as Mockito and Junit.

Teaching / Graduate Research Assistant, Iowa State University, Ames, IA

2020 - 2021

- Hosted labs and office hours for Computer Networking and Embedded Systems Programming classes.
- Collaborated with a team on the ARA project, focusing on researching use of software defined networking for developing the first advanced wireless testbed for agricultural purposes.
- Attended weekly research meetings and gave presentations on relevant academic papers.

Software Engineering Intern, Power Electronics International, East Dundee, IL

2018 - 2020

- Orchestrated and coded a project to develop a customer-facing data collection and analysis system using HTML, CSS, JavaScript, Vue.js, Node.js, and PostgreSQL.
- Designed and developed internal data management tools using Python and SQL.

EDUCATION

Masters of Engineering (ME) - Computer Engineering

2020 - 2021

Iowa State University

Advanced wireless communication focus area.

Bachelors of Science (BS) - Computer Engineering

2016 - 2020

Iowa State University

PERSONAL PROJECTS

Ableton Live MIDI DAW Controller

- Designed custom circuit and wrote software to control motorized potentiometers and handle input from mechanical keys into Arduinos.
- Wrote custom specification and back end API for efficient communication between Ableton Live and Arduino boards using C and Python.