

# Albara Mehene

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## Professional Experience

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*Software Engineer II, BAE Systems*, Burlington, MA

January 2022 - Present

- Created a web application that alerts and monitors live network traffic between radio platforms to measure better metrics using React.js and PostgreSQL
- Developed and extended features and tools in C++ for aircraft control & in Python a messaging system integrated for data exchange used in real-time
- Maintained and extended software running on radio platforms using Python to translate coordinates and communicate between devices
- Refactored and decoupled core legacy components to utilize newer developer tools, resulting in over 30% reduction in build time and faster testing
- Led & migrated CI/CD environment from BitBucket to Gitlabs to gain access to newer tools and functionality such as Docker

*Software Engineer I, Raytheon Technologies*, Woburn, MA

June 2019 – December 2021

- Developed and maintained tools in C++ that helped improve functionality and efficiency by implementing a UI with additional features and capabilities for radar runs
- Used Python to implement scripts that insert and parse data into MySQL databases helping reduce the number of steps required for a Six Sigma project
- Implemented automation scripts to streamline the CI/CD process for Jenkins and GitHub Actions
- Presented and monitored database metrics for stakeholders through analytic tools such as Grafana
- Refactored and refined legacy code for better maintainability and in support of a migrating effort to newer technologies for the team

*Software Support Engineer Co-op, Kronos Inc.*, Lowell, MA

January 2017 - June 2017

- Worked on unit tests to help ensure code quality & better production
- Resolved tickets created by customers through community pages while on-call
- Handled a large volume of tickets in a comprehensive and timely manner

## Education

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**University of Massachusetts Lowell, Lowell, MA**

- B.S in Computer Science, Graduated Spring 2019 | Lowell, MA

**Cisco Networking Academy**

- Certificate in Cisco “IT Essentials,” “Networking for Home and Small Businesses,” and “Working at a Small-to-Medium Business or ISP.”

## Skills

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- **Programming Languages & Libraries:** Python, JavaScript, React.js, C++, C, SQL, NoSQL, InfluxDB, HTML, CSS
- **Technologies:** Git, Jenkins, Node.js, Grafana, AWS, Docker, Flask, Bitbucket, Clearcase, IoT
- **Operating Systems:** Windows, Linux ( Ubuntu, Debian, RedHat )

## Personal Projects

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**Nutrimi (React & AWS)**

- IoT device that automatically orders food combos at the press of a button similar to Amazon Dash Button.
- Designed and implemented front and back-end using React Native that works in sync with the Amazon Dash Button.