Miles Barrios

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EDUCATION

Northern Arizona University   Flagstaff, AZ
Bachelor of Science in Computer Science; GPA: 3.64   *Aug. 2017 – May. 2021*

EXPERIENCE

Microchip Inc.   Chandler, AZ
Software Engineer II   *October 2021 - Current*
- Responsible for designing, developing, and supporting embedded systems firmware for the Wireless Solutions Group
- Successfully developed a module that provides additional GPIO, ADC, and PWM capabilities on an existing MCU using C
- Aided in the development and release process for firmware on a wireless chip using C programming language and Jira
- Assisted in the testing and development of the Boot ROM for a wireless chip using Python, C, and Emulator platforms

State Farm   Tempe, AZ
Infrastructure Analyst   *June 2021 - October 2021*
- In-depth work on the Availability Management Tooling team in Infrastructure
- Led discussions with client regarding features and bugs to be addressed
- Tracked application availability using open source technologies including the Elastic Stack, Selenium, Docker, and Jenkins

State Farm   Tempe, AZ
Enterprise Technology Intern   *May 2020 - April 2021*
- Contributor on customer facing software development team with focus on development of a VSCode extension pack for developers
- Developed and contributed effectively in an agile environment
- Extension project completed using React.js, Javascript, HTML, and CSS

PROGRAMMING SKILLS

- JavaScript
- Python
- TypeScript
- React.js
- C
- HTML
- CSS
- Java
- Node.js
- Git
- Jira
- Jenkins
- Selenium
- ELK Stack
- Unit Testing
- Object-Oriented Programming
- API Development
- Embedded Systems

PROJECTS

Senior Capstone Project
- Full stack web application that provides NAU researchers with a GUI to view asteroid observations from the Zwicky Transient Facility.
- Developed using React.js and C Sharp

StateFarm Hackday Project
- React application that tracks code reviews for gitlab users in all groups and all projects within those groups.
- Utilized React and Axios to grab the merge requests and display on a single-page application.

Operating System Simulator
- Over the course of the semester, developed a non-trivial project that simulated an operating system.
- Developed using C and practiced the use of PCBs, memory management, and concurrency.