# AUSTIN WHYTE

mr.austinwhyte@gmail.com
https://github.com/mrkirby153 • https://austin.whyte.dev

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## Work Experience

**Aruba, A Hewlett Packard Enterprise Company** *Roseville, CA*          June 2020 - Present
*Applications Software Engineer*
- Utilize Kubernetes to deploy microservices in a cloud environment
- Collaborate with other developers using Agile methodologies
- Implement bug fixes, new features, and enhancements into a Python microservice
- Triage defects found by customers and QA

**Aruba, A Hewlett Packard Enterprise Company** *Remote*          May - August 2020
*Applications Software Engineer Intern*
- Developed a high-level block diagram of the internal components of the microservice
- Implemented a REST API for the microservice to allow developers to interact with other microservices over Kafka
- Deployed the microservice into a Kubernetes cluster providing an easy way for developers to debug existing microservices
- Tested the deployed microservice to verify successful functionality
- Created a Jenkins job to collect and bundle licenses for project libraries into one convenient zip
- Worked with a mentor to determine project requirements
- Partnered with another intern to divide work and concurrently implement requirements
- Investigate the translation of AOS-S grammar to the AOS-CX equivalent to enable configuration modifications using existing infrastrucutre

**Aruba, A Hewlett Packard Enterprise Company** *Roseville, CA*          May - December 2019
*Applications Software Engineer Co-Op*
- Tasked with developing a proof of concept to determine if Elasticsearch was a viable replacement to the existing search
- Collaborated with another intern to research and implement a proof of concept replacement of a Spring Boot app's Lucene search system
- Presented the proof of concept implementation to project architects
- Worked with other developers on an Agile team
- Implemented and fixed change requests on a full-stack Spring Boot/React application
- Configured a Jenkins job to automatically generate API documentation nightly
- Create miscellaneous scripts in Python to save time and increase productivity

**Ologic** *Sunnyvale, CA*          Summer 2015
*Internship*
- Programmed robots in C++ and Python
- Assisted in debugging a robot's elevator control system
- Assembled PCBs from surface mounted components

## Projects

*Aruba Central* (Python/Celery/Kubernetes) – Aruba, A Hewlett Packard Enterprise Company
- Develop bug fixes and enhancements for a Python microservice
- Gained an understanding and documented inherited a legacy codebase
- Collaborated with other team members to quickly triage and resolve defects
- Quickly fixed customer found defects
- Utilize Celery for asynchronous task scheduling and execution

*Kafka Test App* (Kafka/Spring/Java) – Aruba, A Hewlett Packard Enterprise Company
- Designed an application using Spring to create and receive Kafka messages over a REST API
- Correlates received Kafka messages with the dispatched REST request

- Collaborated with another Intern to implement project requirements

*NetEdit* (Spring/Java) – Aruba, A Hewlett Packard Enterprise Company
- Worked with team members to implement and test a notification subsystem
- Interact with Slack, TopDesk, and ServiceNOW APIs to automatically create tickets on network events
- Implemented bug fixes quickly and effectively
- Investigated if the existing Lucene-based search functionality could be replaced with Elasticsearch

*Giveaways* (Spring/Java/React) – Personal
- Designed a scalable Discord bot allowing server members to run giveaways of any scale
- Tested the scalability of this bot by running giveaways with over 160,000 entrants
- Integrated the bot with a standalone entry collector providing high availability and reliability
- Receive entrants from entry collectors over RabbitMQ and record them into a MySQL database
- Created a responsive web dashboard using Bootstrap and React allowing users to view entered giveaways
- Utilizes STOMP and SockJS to push real-time events to the dashboard
- Respond to community feedback and bug reports

*KirBot* (Kotlin/MySQL/Redis/Docker) – Personal
- Developed a Discord auto-moderating bot providing server owners with moderation tools
- Connects with a MySQL database providing persistent configuration and message storage
- Communicates with a Redis database for caching
- Deployed in a Docker Compose stack for maximum portability

*KirBot Panel* (PHP/Laravel/React/Redux/MySQL/Redis) – Personal
- Developed a web administration panel for KirBot
- Implemented a responsive mobile-friendly frontend using Bootstrap, React, and Redux
- Exposes a REST API implemented in Laravel to the frontend
- Communicates with KirBot using Redis pub/sub and a MySQL database
- Deployed alongside KirBot in a Docker Compose stack

*Kirbycraft Ultra Hardcode* (Java) – Personal
- Implements the Ultra Hardcore game mode with various tweaks to improve game enjoyment
- Interacts with the Bukkit/Spigot API to implement game features
- Utilizes the Discord API to facilitate creating private voice channels for team members
- Creates an easy to use drop-in game experience for users

*FTC Scouting* (Laravel/PHP/Vue) – Personal
- Created an easy to use, low-bandwidth website allowing users to create surveys with arbitrary questions
- Developed a mobile-first UI using Bootstrap and Vue for team members to efficiently enter survey results
- Utilizes survey results to rank teams based on configurable criteria
- Received and incorporated feedback from team members
- Worked closely with fellow FIRST Tech Challenge team members and coaches to determine application requirements

**Education**
> Bachelor of Science, Computer Science, Software Engineering concentration      May 2021
> *Summa Cum Laude, Academic Excellence in Computer Science*      GPA: 3.95
> University of the Pacific, Stockton CA

**Community Involvement**
- Discord Moderator Program – Work closely with Discord to moderate official community servers
- Discord Testers Bug Admin – Work closely with Discord developers to collect, verify, and triage bug reports