

AARON KELLEY

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EDUCATION

University of Michigan College of Engineering *Ann Arbor, MI*

Sep 2017 - April 2021

B.S.E. Computer Science

- GPA: 3.5 / 4.0
- Coursework: Data Structures and Algorithms, Discrete Mathematics, Computer Organization, Web Systems, Computer Security, Software Engineering, Operating Systems (Spring 2021)
- Awards: Dean's Honor List Fall '17, University of Michigan Regents Merit Scholar

EXPERIENCE

VMware Software Engineering Intern - Atlanta, GA

Jun 2020 - Aug 2020

- Implemented updates to device provisioning agent utilizing .NET Core, a custom REST API, and a PostgreSQL database to provide users with an intuitive application to manage OEM devices
- Refactored components from existing .NET framework project to be compatible with new linux containerization allowing for a much less resource intensive application
- Created and implemented testing and deployment plans using a custom test suite, Docker, and Bamboo to ensure expected behavior from every component of the application

Alexa4Education Development Group *Developer - Ann Arbor, MI*

Apr 2019 - Aug 2019

- Designed and implemented Amazon Alexa skills to serve as virtual instructors for various University of Michigan courses
- Conducted implementation on both front and back end development for each skill, utilizing the Alexa Development console and AWS Lambda, respectively

PROJECTS

Instagram Clone - Full Stack Web App

Feb 2020

- Developed a client-side dynamic Instagram clone that utilizes Python Flask backend, SQLite database, ReactJS frontend and AJAX calls to a custom JSON-based REST API
- Deployed production build to AWS EC2 instance

Star Wars Battle Heap - Battle Simulator

Feb 2019

- Designed program that utilized stock market simulation and streaming algorithm techniques to simulate optimal Sith versus Jedi battles on different planets
- Architected and implemented custom comparators to determine optimal battalion attacks

SKILLS AND ACTIVITIES

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- **Experienced in:** C/C++, Python, Javascript, Java, HTML/CSS, React, Flask, Git
 - **Exposure to:** SQL, .NET/.NET Core, Docker, SQLite, UNIX, VIM, AWS
 - **Other Interests:** UMich iOS development club, skiing, camping