Kevin Aiken

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EXPERIENCE

- **NCR** — Atlanta, GA
  Software Engineer — *July 2019 - Present*
  - **Technical Leadership**: Led a team of software engineers and quality engineers, planning our roadmap and executing on it, while also growing junior members of the team.
  - **Vagrant**: Significantly updated our Vagrant and SaltStack based virtualization infrastructure to generate virtual labs more effectively.
  - **Python Integration Testing**: Designed and implemented a Python Integration testing framework to orchestrate complex system tests on distributed systems.
  - **Task Automation**: Maintained and improved several Python based utilities designed to automate previously manual tasks, such as re-imaging labs.

- **OttoDock** — Dawsonville, GA
  Freelance Software Engineer — *Oct. 2018 - Present*
  - **Product Development**: Worked with a multidisciplinary group of engineers to design a concept for autonomous lake docks that self position and provide a variety of smart features, and then iterated through several prototypes. Currently we have a handful of beta docks in the water at Lake Lanier.
  - **Backend**: Developed the Kotlin+Spring backend from the ground up. It currently consists of many API's for CRUD operations, websockets for live video and data streaming, and a variety of scheduled tasks.
  - **Frontend**: Contributed to the frontend application built with React and Typescript.
  - **Infrastructure**: Implemented and refined our approach to cloud infrastructure on AWS following best practices, including fully implemented CI/CD.
  - **Security**: Researched and implemented our security approach, following best practices to implement user login, password reset, and authentication on both API's and websocket connections.

- **T-Mobile** — Dunwoody, GA
  Software Engineering Intern — *June 2018 - May 2019*
  - **Full Stack Development**: Developed several full stack applications using Angular and Java Spring to demonstrate concepts.
  - **Backend Mocking**: Virtualized a financial backend service to simulate partial system outages so that the behavior of our application could be thoroughly validated.
  - **Kubernetes Prototyping**: Prototyped a proof of concept to run a document signing application on Kubernetes to increase the performance and robustness of the application.

EDUCATION

- **Georgia Institute of Technology** — Atlanta, GA
  Master of Science in Computer Science — *Jan. 2020 – Dec. 2022*

- **Georgia State University** — Atlanta, GA
  Bachelor of Science in Computer Science; GPA: 3.6 — *Aug. 2016 – May. 2019*

PROJECTS

- **MarkIt**: Hackathon project using web NFC to to implement checkout-less shopping
- **IoT Physical Therapy**: Worked with a professor in Georgia State's Physical Therapy Department to provide them a specifically tailored Android application for conducting physical therapy on participants using Myo EMG bands.
- **Undergraduate Research**: Prototyped an automated personnel tracking solution using both passive bluetooth sampling and streaming cloud computer vision.

PROGRAMMING SKILLS

- **Languages**: Kotlin, Python, Typescript, Javascript, SQL   **Technologies**: React, Spring, Postgres, AWS, Linux, Vagrant