

ALDEN W. KING

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SKILLS

Programming Languages: Python, TypeScript, JavaScript, Dart, Java, Bash, HTML, CSS

Libraries: React, Flask, Vue, Flutter, Django, NodeJS, Next, Tailwind

Tools: SQL/NoSQL (PostgreSQL, MongoDB, Cassandra), GCP, AWS, REST, GraphQL, Git, K8S, Linux, Agile, CL

PROFESSIONAL EXPERIENCE

Career Break - Professional Development | May 2023 – June 2024

- Acquired new engineering skills to build several Full-Stack projects to enhance technical proficiency and career growth.

Casa Systems - Software Engineer, Andover, MA | Feb 2021 - May 2023

- Led the creation of a vCCAP solution leveraging Google Cloud and Anthos, which enhanced scalability. Built automated installation using python and bash, and wrote technical documentation for VM setup for Anthos nodes.
- Implemented innovative solutions in Python for the vCCAP platform, enhancing user experience by updating the UI for node initialization and simplifying network setup procedures increasing node creation by 30%.
- Leveraged Docker and Kubernetes technologies to streamline deployment processes, resulting in a 30% reduction in deployment times and significantly bolstering overall system reliability.

Broad Institute - Software Engineer, Cambridge, MA | Summer 2019, Spring 2020

- Developed a new automated system for the IT Help Desk that scanned users IDs and created a basic ticket template with user information in ServiceNow to increase efficiency by 20%-50%.
- Collaborated with a cross-functional team to develop a Python-based automation solution, streamlining the transmission of COVID-19 test results to the CDC, reducing manual effort by 75% and ensuring timely data reporting.
- Improved onboarding productivity by automating email communications and eliminating the need for manual email dispatch by HR with SMTP protocol to attach PDF HTML template in Flask.
- Strengthened expertise in Flask and Full Stack Python development through active participation in the design and debugging processes of the Broad website, utilizing Bootstrap for an enhanced skill set.

PROJECTS

Q - [Repo](#), [Deployed](#)

- Developed a web app for queue management tailored for small businesses using Python, Flask, and AWS S3.
- Enabled users to create and manage queues with an intuitive admin interface displaying real-time member positions and the next person in line.
- Implemented QR code functionality for seamless queue entry, allowing members to constantly view their position.

Excursia

- Engineered a mobile application using Flutter for iOS and Android that dynamically generates running routes to encourage users to explore their neighborhood.
- Empowered users to input their desired running distance and receive a randomly generated path with step-by-step navigation utilizing mapping and location services to ensure accurate route guidance.

Image Recognition App - [Repo](#)

- Constructed an Image Recognition App utilizing Kivy for the GUI and TensorFlow for model training.
- Designed and implemented an application capable of identifying baseballs, hockey pucks, and basketballs in images which enabled users to capture unique pictures with the app and accurately determine the presence of specified objects within custom datasets.

MBTA Google Home Commands - [Repo](#), [Medium Article](#)

- Created custom commands for Google Home to provide real-time updates on train arrival times using the MBTA API with Python.

Mail-E - in development - [Repo](#)

- Designed a Mail Client desktop app with a Python backend, EEL for creating Electron-like desktop apps, and a React frontend with Tailwind CSS.
- Integrated an AI Assistant using Chat-GPT to assist in composing and replying to emails professionally.
- Implemented features for automatic email sorting into specific folders and spam reduction, enhancing overall user efficiency and email management.

EDUCATION

Wentworth Institute of Technology, Boston, MA

Bachelor of Science in Computer Science, Applied Math Minor December 2020