

# Allen Liu Seattle Area

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## EXPERIENCE

**Uber** Seattle, WA  
*Software Engineer (Product Equity Team)* **July 2022 - Current**

- Built the backend for Uber's display name validation service that augments the existing flow of updating earner names on the platform in order to reduce the volume of name change tickets sent for manual review.
- Demonstrated strong level of ownership and collaboration to get teams and external vendors aligned throughout the development process, not only on the engineering details, but product as well.
- Expanding to mobile engineering (Android) for upcoming projects related to improving service animal experience.

**Uber** Seattle, WA (Remote)  
*Software Engineer Intern (Cadence Team)* **May 2021 - August 2021**

- Developed an alternative config system for open source Cadence customers to use that resolves many of the pain points with the current file based system such as file synchronization between hosts of a Cadence cluster.
- Written in Go with Cassandra support and landed to the main branch of Cadence repo for actual open source customers to use.

**Amazon Web Services** Seattle, WA (Remote)  
*Software Development Engineer Intern (CloudFormation Team)* **June 2020 - August 2020**

- Developed a query engine for customers to build complex queries using GraphQL against their CloudFormation data in order to reduce the number of API calls and client-side computation currently required for queries.
  - Written in Java and built with various AWS services including AppSync, Lambda, DynamoDB, and DocumentDB.
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## EDUCATION

**Carnegie Mellon University** Pittsburgh, PA  
Bachelor of Science in Computer Science | Minor in Robotics | GPA 3.5 **September 2018 - May 2022**

**Relevant Courses:** Distributed Systems, Principles of Software Construction, Algorithm Design and Analysis, Software Foundations of Security and Privacy, Robot Kinematics and Dynamics, Introduction to Machine Learning

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## SKILLS

**Programming Languages** Java, Python, Go, C, and some basic web development skills (Javascript, HTML, CSS)

**Frameworks and Technologies** AWS, GraphQL, Cadence, SQL, MongoDB, Cassandra, Mockito, Gomock, gRPC, Thrift, React

**Miscellaneous** CAD, 3D Printing, Arduino, Raspberry Pi, PCB Design, Machine Shop Training

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## PERSONAL PROJECTS

**Io** - A robotic puppet of sorts whose physical movements and facial expressions are controlled through face tracking with features including ability to record and playback motion sequences.

- Written in Python (with a sprinkle of C++) with parts designed in Solidworks and 3D printed.

**LED Matrix Dashboard** - A physical dashboard provides a constant view of relevant info such as basic metrics (time and weather), eye candy (custom gifs and patterns), todo lists, and phone notification alerts.

**for more details and other projects, please check out [aliuliu121.github.io](https://github.com/aliuliu121)**

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## HONORS

**MedHacks 2020:** 1st Place in Patient Adherence and Quality Care during a Global Pandemic Track

**PennApps 2020:** Winner of Best Use of Google Cloud: COVID-19 Hackathon Fund