

Owen Luo

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EDUCATION

University of Maryland College Park

B.S. in Computer Science, Minor in Statistics, GPA: 3.72

College Park, MD

Expected May 2022

- **Selected Coursework:** Advanced Algorithms, Advanced Data Structures, Multi-threading/Concurrency, Database Design, Computer Vision, Machine Learning, Data Science, Applied Probability, Linear Algebra, Calculus III

SKILLS

Languages: Java, Javascript/Node, Typescript, Python, HTML/CSS

Frameworks: React, React Native, Flask, Angular, Vue, .NET

Other: Git, MySQL, AWS (DynamoDB, S3, Lambda, Kinesis, EC2, CloudWatch, API Gateway, etc.)

EXPERIENCE

Amazon Web Services (AWS)

Seattle, WA

Software Development Engineer Intern

June 2021 – August 2021

- Designed and built a React component to count, track and display information for 640,000 alarming computers/servers grouped within Amazon Client Engineering (will scale to entirety of Amazon in the future)
- Leveraged AWS DynamoDB, Lambda, API Gateway, CloudWatch, and messaging technologies (SQS, SNS, Kinesis) to build out workflow for group alarm monitoring
- Modified and tested end-to-end the Amazon Enterprise Monitoring console, pipeline, backend API, and ticketing message creation lambda to include group alarm information

Capital One

New York, NY

Software Engineering Tech Incubator Intern

September 2020 – January 2021

- Developed a React website that utilized S3, Lambda, DynamoDB, and Application Load Balancer to host a robust interface for Capital One's digital property records

Software Engineering Intern

June 2020 – August 2020

- Implemented interactive components with Angular, ngRx and AWS Lambdas, to allow contributions and distributions to IRAs for over 250,000 accounts
- Added 80% unit test coverage to ensure quality and reduce development time

Software Engineering Tech Incubator Intern

February 2020 – May 2020

- Built a neuro-linguistic tool with React, spaCy, and Python Flask that displays part-of-speech tags, syntactic dependencies and named entity visualization on input text

Maryland Information and Network Dynamics Lab

College Park, MD

Software Development Engineering Intern

Feb 2019 – May 2020

- Utilized and self-taught React Native to develop and document an IOS and Android compatible activity tracking mobile application capable of voice recording and pictures
- Employed a RESTful API through Python Flask connecting to a MySQL database to send and store data

Boy Scout of America

Rockville, MD

Eagle Scout

September 2008 – April 2018

PROJECTS

- **Technica Hackathon Platform (Vue, Serverless, S3, Lambda, DynamoDB):** Leveraged various technologies to create an online platform for ~3000 participants for the world's largest all-women and non-binary hackathon
- **Bitcamp Hackathon Platform (Javascript, DynamoDB, SlackAPI, Python, Serverless):** Developed matching algorithm and notification system to connect sponsors and hackers for the Hackathon Expo
- **Macro (Javascript, React Native, Firebase, Google Cloud Vision):** IOS & Android compatible mobile application that identifies food in pictures and displays calories and macronutrients using data from USDA database
- **Shared Paper (Javascript, React Native, MongoDB):** Synchronous canvas collaboration IOS mobile application