

Yijie Zhu

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[Personal Website](#) | <https://github.com/FishermanVan>

Education

University of California, Santa Cruz

Sep. 2019 - Present

Expected Graduation: June 2023

B.S. in Computer Science

GPA: 3.62/4.0

Experience

Amazon - Software Development Engineer Intern

Sep. 2022 – Dec. 2022

- Researched, prototyped, and designed a scheduled **Amazon Redshift** deletion tool that used **Amazon Redshift Data API** to fulfill customer GDPR (General Data Protection Regulation) deletion requests with a minimum scale of **100k** Customer ID deletions per day in 100 related Redshift tables.
- Implemented the deletion tool using **Python** and **AWS** services such as **AWS Lambda**, **S3**, **Eventbridge**, **DynamoDB**, **Apache Airflow**; defined and provisioned **AWS cloud application resources** using **TypeScript** and **AWS CDK**.
- Continuously integrated and deployed the deletion tool to beta and production environments using Amazon's internal pipeline; set up metrics & logs collection mechanisms as well as alarming mechanisms using **Amazon CloudWatch**

CrowdStrike - Cloud Engineer Intern

June. 2022 – Sep. 2022

- Built an internal RESTful API endpoint that read data from **Cassandra** tables using **Golang**; deployed the endpoint to multiple development and production clouds using **Spinnaker** and **K8s**, monitored metrics and logs using **Grafana** for dashboards and **Splunk** for logs.
- Implemented and deployed part of the **Cassandra** database populating logic for the above API endpoint that ran more than **five million** times per day, using **Golang**.
- Implemented a new internal UI Page for the above API endpoint, using **AngularJS**, **HTML** and **CSS**.
- Improved a proxy API endpoint for the above UI page, using **Python**.

Amazon - Software Development Engineer Intern

Aug. 2021 – Nov. 2021

- Built and deployed an **Amazon S3 Bucket** scraper that allowed team to seek out potential legally non-compliant **S3** datasets and buckets owned by Amazon Music teams, using **Python**, **AWS S3**, **CloudFormation** and **Apache Airflow**.
- Learned software engineering best practices such as **Git**, **Code Review**; participated in team's **Scrum Workflow** that includes daily scrum meetings and bi-weekly sprint plannings.

Skills

Productive: Python, Golang, TypeScript, Git, AWS, HTML, CSS, Spinnaker, Splunk, Grafana.

Familiar: AngularJS, Java, C++, C, Node.js, SQL, Cassandra, K8s.

Projects

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- Built a responsive personal website using **HTML**, **CSS**, **JavaScript**, **AWS API Gateway**, **Lambda**, **SES** and **S3**.