

# Yijie Zhu

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Website: <http://yijiezhupersonalwebsite.s3-website-us-east-1.amazonaws.com>

## Education

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**University of California, Santa Cruz**

**Sep. 2019 – June. 2023**

Bachelor of Science, Computer Science

**GPA: 3.62/4.0**

**Relevant Coursework:** Data Structures and Algorithms, Operating Systems, Database Systems

## Experience

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**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

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**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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### Personal Website

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