
JUNHUI (JULIA) CHEN

Herndon, VA ♦ junhuichen16@gmail.com ♦ linkedin.com/in/junhui-chen

Professional Summary

Software engineering professional with two years of experience developing full-stack enterprise applications, cloud workflows, APIs, and data solutions at Fannie Mae. Computer engineering background with hands-on experience in Java, SQL, AWS, production support, and technology governance, and a growing focus on cybersecurity and secure systems.

Professional Experience

Fannie Mae - Software Engineering Associate, Cloud Infrastructure

Reston, VA

July 2024 – Present

- Develop and maintain frontend and backend features for an internal technology governance platform, including technology inventory interfaces, backend services, and data-query workflows.
- Build Java-based reporting and data-processing solutions, including automated email reports and Amazon S3 upload workflows, to streamline operational and reporting processes.
- Develop and optimize complex SQL queries across multiple database views and tables in DBeaver, and support a scheduled daily data-load job that maintains historical trend data and reporting consistency.
- Investigate and resolve data inconsistencies between executive-level and block-level views by tracing records across scheduled data loads, SQL queries, backend services, API responses, and frontend logic.
- Develop and maintain RESTful and point-to-point (P2P) endpoints and create Swagger/OpenAPI documentation to support system integrations and improve API usability.
- Support production patching, release validation, and application updates in AWS EC2 environments backed by Amazon RDS for MySQL, including database version upgrades and troubleshooting across UI, API, service, and database layers.

Fannie Mae - Data Analytics & Engineering Services Intern

Reston, VA

June 2023 - August 2023

- Enabled and evaluated AWS Forecast, SageMaker, and Textract for technology-selection proof-of-concept initiatives.
- Developed IAM policies for AWS Forecast and implemented SageMaker Augmented AI functionality to support secure service adoption by application teams.
- Presented technical capabilities, business value, and usage patterns of AWS services to stakeholders.

Education

The Ohio State University

Columbus, OH

Bachelor of Electrical & Computer Engineering, Computer Engineering Track | May 2024 | GPA: 3.49/4.00

Honors: Humanitarian Engineering Scholars Program

Awards: Tech Corps Girls of Color Programming Hackathon — First Place

Admitted to UC Berkeley's Master of Information and Cybersecurity program for January 2027.

Technical Skills

Programming: Java, SQL, JavaScript, Python, C++, C, HTML/CSS

Cloud & Data: AWS S3, EC2, RDS, IAM, SageMaker, Forecast, Textract; DBeaver; data querying and processing

Development: Full-stack development, REST APIs, point-to-point (P2P) endpoints, Swagger/OpenAPI, Git, GitLab, production support and patching

Language: English and Mandarin Chinese (bilingual); Japanese (conversational proficiency)