EUGENIA VUONG

https://github.com/eugeniavuong | eugeniavuong7@gmail.com | +44 7563604675 | London United Kingdom
https://geenievuong.vercel.app/

WORK EXPERIENCE

Associate Software Engineer, Publics Sapient — Sep 2022 - Present

Java Developer

- Led a team of developers, building features and fixing faults and bringing them into production. I was also responsible for maintaining repos in github, reviewing PRs and using tools like **SonarQube** to analyse code quality.
- Develop **Java Spring Boot** REST **APIs** connected to **Cassandra** No-SQL databases and **Db2 IBM** databases. These endpoints were built based on customer requirements and use cases.
- Fixing production incidences e.g. an API gateway misconfiguration fix leading to 42% reduction in errors.
- Built the resilience solution to a new SoE by building a streaming pipeline as part of a data migration process using **Kafka** and **CDC**.

Web Developer (pro-bono project)

- Re-designing a website to make it easily maintainable for the client hosting it on **Wordpress**
- Developed an accessible **UI** with **HTML, CSS, JavaScript** and **PHP** based on designed worked on with the experience team on **Figma**.
- Web load time reduced 28%, and donations increase 15% since the first launch of the new site.

NOTABLE PROJECTS

BioPredX: ML Cancer Detection Pipeline — Apr 2020 - Aug 2021

- Building a **machine learning** pipeline with **recursive feature elimination** to predict biomarker(s) associated with cancer. Predictive markers were generated from next genome sequencing data of biological samples (diseased and healthy).
- Developed the pipeline in python, using **ML** libraries e.g. **scikit learn** and **imbalance learn** and containerised the pipeline using **Docker**.

NeuroTone: Biotherapeutic iGEM Competition — Jun 2020 - Nov 2020

- Part of a team of students competing in a global synthetic competition to **synthetically engineer** a biotherapeutic to delay the onset of neurodegenerative diseases. Collaborated with universities across the globe organising virtual events, workshops and a **podcast on Spotify**.
- Collaborated with the math students to improve an existing computational model to understand the behaviour of the targeted bacterium under simulated conditions. The improvements were built using a **python** library **COBRApy**.
- Built the website for the project, a key project deliverable for judging using **HTML, CSS, JavaScript**.

User Listening Habits Report — Current

- Currently developing a pipeline to process music **streaming data** and generate **daily reports** on user listening habits. This project will involve **ingesting data**, processing it to extract meaningful insights, and **storing** the results in a way that can be easily accessed and analysed.

EDUCATION

Master of Science in Computer Science — Sep 2019 - Oct 2020

University of Newcastle, Distinction 81%

- Key modules include Database Systems, Advanced Java programming, Group Project

Bachelor of Biology — Aug 2015 - Aug 2019

University of Nottingham, First 71%

- Key Modules: Bioinformatics with R, Human Physiology, Microbiology and Disease.

ADDITIONAL INFORMATION

- **Programming languages:** Java, Python, R, HTML, CSS, JavaScript, TypeScript.
- **Languages:** English, Cantonese (native)
- **Certifications:** Azure Fundamentals AZ-900
- **Awards/Activities:** Google TechMaker Speaker (2023), Publicis Sapient Core Value Award - learning mindset (2023), PS Hackathon semi-finalist (2023), Course Representative - Most Improved School (2021), iGEM Gold Award (2020)