EUGENIA VUONG

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EXPERIENCE

Associate Software Engineer, Publicis Sapient   Sep 2022 - Present

Java Developer

- Developed **Java Spring** Boot REST APIs for **21.5 million** digital customer account journeys at one of the **top 4 UK banks**.
- Implemented connections to **Cassandra** No-SQL databases, **Db2 IBM** databases and developed scripts for **stored procedures**. 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**. One consumer alone of this SoE has between £50,000 to £5 million in investable assets.

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 designs in **Figma**.
- Web load time reduced 28%, and donations increase 15% since the first launch of the new site.

Experience Web Accessibility Designer, Ingram Valley   Feb 2022 - June 2022

- Developed a website report detailing WCAG web accessibility breeches and suggested improvements as well as steps for implementation that would **increase the accessibility by 60%**.
- Designed high fidelity wireframes and plan of action for when the company has budget for a website re-design.

NOTABLE PROJECTS

BioPredX: ML Cancer Detection Pipeline   Apr 2022 - Aug 2022

- 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**.
- Achieved an **improved prediction by 28%** with RFE when biomarkers were predicted in combination compared to individual biomarkers

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 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**.
- Achieve a **gold award** in the biotherapeutic division out of **249 teams globally**.

EDUCATION

Master of Science in Computer Science   Sep 2021 - Oct 2022
University of Newcastle, Distinction 81%
- Key modules include Database Systems, Advanced Java programming, Group Project

Bachelor of Biology   Aug 2018 - Aug 2021
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, SQL.
- **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)