

EUGENIA VUONG

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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)