

Oktarian Tilney-Bassett

Website | GitHub | LinkedIn

EDUCATION

The Hong Kong University of Science and Technology

Sep 2019 – May 2023 | Hong Kong

Bachelor of Engineering in Computer Science

- On track for First-Class Honors (CGA: 3.68/4.3)
- Exchange Semester at the University of Southern California (Spring 2022 - GPA: 4.0/4.0)
- Relevant Coursework: Algorithms and Data Structures, OOP, Software Engineering, Databases

SKILLS

Languages

Go, JavaScript, C++, C#, Python, SQL

Technologies

AWS, Docker, Grafana, gRPC, OpenAPI, Kubernetes

General

REST APIs, SQL/NoSQL Databases

EXPERIENCE

Amazon

Nov 2022 – Feb 2023 | London, UK

Incoming Software Development Engineer Intern

Improbable

May 2022 – Oct 2022 | London, UK

Software Engineer Intern - Game Server Orchestration Team

- Led the migration from cluster-specific to region-based game servers to improve operations and enable zero-downtime cluster migrations without requiring any customer action
- Streamlined the customer experience by designing and implementing new features such as the ability to disable computing resource allocations and a CLI-based mock API server that enables customers to test their games locally
- Created and documented a demo game that integrates our multiplayer services to help customers onboard effectively

Gearset

Jun 2021 – Aug 2021 | Cambridge, UK

Software Engineer Intern - Deployment Pipelines Team

- Expanded the deployment pipeline offering by adding support for Bitbucket
- Developed a new multi-step wizard to guide customers through the creation of deployment jobs
- Created an internal dashboard to display business-critical metrics for monitoring pipelines activity and usage

University Campus Map

Oct 2020 – May 2021 | Hong Kong

Software Engineer Intern (Part-Time)

- Re-designed the mobile website user interface and integrated new pathfinding and localization features, helping thousands of students find their classes more easily

PROJECTS

Stock Trading Simulator

Go, JavaScript, ReactJS, PostgreSQL, Docker, AWS, GitHub Actions

- Built a full-stack application that allows users to simulate trading on the stock market
- Implemented a RESTful API backend, a dynamic dashboard frontend, user authentication, and database management
- Created a CI/CD pipeline to automatically deploy the application to AWS

Serverless Chat Application

JavaScript, ReactJS, AWS

- Created a chat application to exchange messages in real-time using a serverless architecture deployed on AWS

Flight Simulator

C#, Unity Engine

- Developed a multi-threaded chunk-based procedural world generator game that can be explored by plane