Oktarian Tilney-Bassett

Website: oktarian.com GitHub: OktarianTB LinkedIn: Oktarian-TB

Education

Hong Kong University of Science and Technology

Sept 2019 - May 2023

- Bachelor of Engineering in Computer Science (Ranked #26 Worldwide) on track for First-Class Honors
- Exchange Semester at the University of Southern California (Spring 2022)
- Coursework: Algorithms and Data Structures, OOP, Software Engineering, Databases

Skills

Languages: C#, C++, JavaScript, Python, SQL Databases: PostgreSQL, MongoDB

Web: ReactJS, NodeJS, Other: Version Control (Git, GitHub), Docker

Experience

Improbable

June - August 2022

June - August 2021

Incoming Software Engineering Intern

Full Time / London, UK

Gearset | Cl Deployment Pipelines Team

Full Time / Cambridge, UK

Software Engineering Intern

- Implemented features, improvements and bug fixes related to continuous integration deployment pipelines
- Developed high impact features on both the frontend and backend such as a new wizard for creating CI jobs and webhook management, whilst maintaining high standards of code and testing coverage
- Created an internal dashboard to display a range of useful metrics for monitoring pipelines activity
- Collaborated with the team on design discussions and participated in version control activities

University Campus Map | Full Stack Team

October 2020 - June 2021

Software Engineering Intern

Part Time / Remote

- Responsible for a group of 3 students working on frontend and backend features and improvements
- Completed a re-design of the mobile website UI and integrated new pathfinding and localization features
- Worked cross-platforms by implementing deep links on both iOS and Android using React Native and managing redirection on the web application using ReactJS

Projects

Visitado | GitHub Link | JavaScript, NodeJS, ReactJS, MongoDB

- Created a full-stack travel social network for users to track locations visited, earn badges and share posts
- Implemented a dynamic frontend, a RESTful API backend, authentication and database management

Flight Simulator | GitHub Link | C#, Multi-Threading, Unity Engine

- Developed a chunk-based procedurally generated 3D world with biomes to be explored by plane
- Leveraged multi-threading and mesh colliders optimizations to enable smooth generation

Raytracer | GitHub Link | C++

- Created a program to construct ray-traced images of scenes recursively with refraction and reflection
- Implemented advanced algorithms for texture mapping, complex geometry intersection, lighting