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 (Program Ranked #17 Worldwide)

• Coursework: Algorithms and Data Structures, OOP, Software Engineering, Operating Systems

• **CGA:** 3.73/4.3 (on track for First-Class Honors)

Skills

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

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

Experience

Gearset | Cl Deployment Pipelines Team

Software Engineering Intern

June – August 2021

Full Time / Cambridge, UK

- 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

Game Jams | Portfolio Link | C#, Unity Engine

• Created games within a few days for Global Game Jam, GMTK, Ludum Dare and others