

David Zelong Fan

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EDUCATION

Carnegie Mellon University

Bachelor of Science in Computer Science
Bachelor of Science in Business Administration
GPA: 3.85/4.0; Dean's List: 3 Semesters

Pittsburgh, PA
Dec 2023

RELEVANT COURSEWORK:

Parallel and Sequential Data Structure • Computer Graphics • Introduction to Computer Systems • Introduction to Machine Learning • Principles of Functional Programming

SKILLS

Programming: C++, Python, Java, C, C#, SML, JavaScript, Prolog, Git

Other: Unity 3D, Microsoft Excel, Google Sheets (App Script Extension), AWS

EXPERIENCE

TigerGraph

Software Engineer Intern

Redwood City, CA
May 2022 - Aug 2022

- Implemented 20+ library functions to enhance the usability of Tigergraph's graph database
- Redesign heap accumulator to improve its time complexity from $O(n)$ to $O(\log n)$
- Communicated across different teams to finalize features and collaborate on tasks

LittleMoochi

Intern

Pittsburgh, PA
May 2020 - Aug 2020

- Operated in different segments across the local startup and prepared for a major app release
- Migrated company website to Amazon Lightsail (AWS service) and automated email using SES
- Improved website loading speed and integrated Google Analytics to website's tracking system

PERSONAL PROJECTS

Independent Game Development | Unity

Spring 2020 - Present

- Making a 2D platformer game, where I developed a custom event system and implemented a finite state machine that controls the player's movement and animation

Scraping and Sentiment Analysis on Stocks | Python

Spring 2022 - Present

- Scraped Reddit posts and used sentiment analysis to perform stock screening and analysis

ACTIVITIES

Game Creation Society

Team Leader and Director of Development

Fall 2019 - Present
Pittsburgh, PA

- Hosted project Game Bytes to teach new members about Unity and programming
- Created 3 games using Unity in the past semesters, implemented design patterns and abstraction to write modular scripts suited for extension

Business Technology Group

Programmer

Spring 2022
Pittsburgh, PA

- Learned web development from scratch; implemented a course rating website using React and connected all information to MongoDB