Dennis Zubov

denniszubov365@gmail.com | (470) 298-0262 | denniszubov.com | LinkedIn | F1 Visa Student

Education

Georgia Institute of Technology | Atlanta, GA *August 2020 – Present*
Bachelor of Science in Computer Engineering (4.0/4.0 GPA) with Minor in Economics Expected Graduation, May 2024
Concentrations: Distributed System & Software Design, Information Internetworks

Skills

Programming: Python, Java, C, C++, SQL, HTML, CSS, Linux, OS X, JavaScript, TypeScript, VHDL, MATLAB, Assembly
Web Frameworks & Technologies: Django, Flask, Angular.js, Git, GitLab, GitHub, Jira, Unit Testing, REST API, CI/CD, React, MySQL, PostgreSQL, Oracle DB, AWS, DynamoDB, MongoDB, OpenAI API, Bloomberg
Communication: Product Demos, Presentations (Large and Small Audiences), Technical Reports
Languages: English (native), French (conversational), Russian (fluent)

Experience

Software Engineering Intern - PIMCO | Newport Beach, CA *June – Aug 2023*
- Built internal tools in Python and using the OpenAI API to help portfolio managers be more efficient in research.
- Developed and delivered multiple product demonstrations, honing my presentation and communication skills.
- Worked alongside Quant Portfolio managers as a member of the Systematic Trading Tech team with the Quant Devs.

Software Engineering Intern (part-time) - Georgia Tech | Atlanta, GA *April 2023 – Present*
- Leading the development of an internal financial reporting website from zero to one for the ECE department at Georgia Tech using the Django web framework and MySQL.
- Designed solution to connect existing internal Oracle data warehouse to the web application to pull information for reporting and to save information for better information management.

Software Engineering Intern - Jurumani Solutions | Johannesburg, South Africa *February – July 2020*
- Developed over 200 backend HTTP API endpoints in Python that were deployed to production. Used the Django web framework to act as an API gateway for a web application for a large mobile services provider.
- Increased test coverage to 100% for the codebase's CI/CD that was hosted on Gitlab. Wrote tests for older API endpoints.
- Used agile development methodology with weekly meetings with our client to ensure that the client's needs were met.

Projects

Formula One AI Advisor: Designed and built a website that allows users to ask any questions about Formula 1. Built using Python and the OpenAI API. Using OpenAI to intelligently retrieve data and return responses with current or historical data.
Photo Gallery: Built a photo gallery web application where users can post, delete, and update photos within albums. Built using python, Flask, and AWS services such as S3, DynamoDB, and EC2. Added custom user authentication and management.
RPG Quest Video Game: Built video game where the player interacts with characters and objects from multiple maps to advance in the game and reach the final door. Built a controller using a breadboard with buttons and an accelerometer. Used an LCD screen to display the game and used an Mbed microcontroller to run the game. Designed and built fully in C.

Relevant Coursework

Software: Data Structures, Algorithms, Multithreading, Agile Web Development, Computer Networking**,** Relational Databases, NoSQL Databases, Cloud Computing
Hardware: FPGA, Oscilloscopes, Logic Analyzers, Waveform Generators, Mbed Microcontroller
Mathematics: Probability, Statistics, Linear Algebra, Multivariable Calculus, Differential Equations, Combinatorics
Finance: Advanced Macroeconomics, Money & Capital Markets, Game Theory

Leadership & Extracurricular Activities

Intramural Supervisor (~12 hrs/wk) - Georgia Institute of Technology | Atlanta, GA February 2021 – Present
- Managing the logistics of over a dozen intramural sports that are offered to Georgia Tech students.
- Leading training programs for new officials including classroom and on-field/court trainings.

Quantitative Sector Analyst (~6 hrs/wk) – Georgia Tech Investments Committee | Atlanta, GA August 2022 – Present
- Manage and invest an endowment of approximately $2 million collectively with the Investments Committee.
- Developing python programs that aid in the investment decisions of the committee through quantitative analysis.