Sydney Tran

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EDUCATION

Cornell University – ***College of Engineering*** **Ithaca, NY**

Candidate for Bachelor of Science in Computer Science *Exp. 2025*

- GPA: 3.862/4.0; Relevant Coursework: Object-Oriented Design and Data Structures (Honors), Discrete Structures, Data Structures and Functional Programming, Introduction to Analysis of Algorithms, Introduction to Machine Learning

SKILLS

- Languages: Java, JavaScript/TypeScript, C#, OCaml, Python, SQL, HTML/CSS
- Tools: Visual Studio Code, Visual Studio, IntelliJ, Git/GitHub, Docker
- Frameworks: React, .NET
- Methodologies: Agile/Scrum

CERTIFICATIONS

- Microsoft Azure Fundamentals (Microsoft Certified: AZ-900 Exam) *Aug. 2022*

EXPERIENCE

Starburst **Boston, MA**

Software Engineer Intern *May. 2023 – Aug. 2023*

- Worked on the SaaS Foundation team to develop Growth and Billing Management service for Starburst Galaxy, a fully-managed data lake analytics platform for querying across disparate data sources and with support for AWS, Azure, and Google Cloud
- Implemented pricing and packaging plan using Java for backend, React with Typescript for frontend, and SQL for DB migrations
- Integrated payment tiers into billing and entitlement system and added backend and UI gates for paid tier features
- Developed new free trial experience by updating billing and entitlement managers and creating notifications events

MILL5 **Boston, MA**

Software Engineer Intern *May. 2022 – Aug. 2022*

- Worked on the product development team to create FinOwl, an application that helps financiers and stock traders retrieve quality market information through chat bots in platforms such as Microsoft Teams
- Built frontend and backend of the internal administration site for managing FinOwl users and products
- Developed a REST API with .NET 6 using n-tier architecture with unit and integration tests
- Implemented SPA using React with TypeScript, RTK Query from Redux Toolkit, and a Metronic Bootstrap template

Cornell Design & Tech Initiative Project Team **Ithaca, NY**

Software Developer *Nov. 2021 – Present*

- Developed CU Design, a website of resources and information for the Cornell design community, using React with TypeScript
- Implemented the Student Orgs, Faculty, and Articles desktop pages and the Area of Study and Events mobile pages
- Developed QueueMeIn, a website used to manage and organize office hours in CS classes at Cornell, using React with TypeScript
- Implemented the filter questions by tags, preview most recent comment, and view current time spent on a question features

Harvard DASlab **Boston, MA**

High School Intern *May. 2020 – Sep. 2020*

- Developed web demo for the Cosine (Cloud-Cost Optimized NoSQL Storage Engine) research paper
- Collaborated with professor Stratos Idreos and his team from the Data Systems Laboratory
- Implemented the UI and algorithms for uploading uniform or skewed data to the demo using JavaScript, HTML, and CSS
- Debugged and resolved issues involving corner cases for designing the storage engine configurations

PROJECTS

Raspberry Pi Cornell Bus Tracker *Jul. 2022 – Aug. 2022*

- Developed Cornell University bus tracker using Raspberry Pi and LED light strips
- Displayed real-time departure info through LED lights' colors, patterns, and flashing
- Implemented using Python and performed web scraping of TCAT website to collect real-time route data

Sunset Calculator *Feb. 2021 – Jun. 2021*

- Developed a website that calculates the quality of upcoming sunsets and sunrises in an inputted zip code
- Collected and presented location data and sunrise/sunset data from APIs
- Implemented with a partner using JavaScript, HTML, and CSS

LEADERSHIP

Andover High School Girls Varsity Ski Team **Andover, MA**

Captain *Sep. 2017 – Jun. 2021*

- Competed against other high schools in the North Shore Ski League in giant slalom and slalom ski races
- Prepared practice gates, demonstrated drills for the team, and organized/budgeted girls team events
- Awarded Most Improved for 2019 season and Most Valuable Player for 2020 season