

Sydney Tran

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EDUCATION

Cornell University – College of Engineering

Bachelor of Science in Computer Science, Minor in Mathematics

Ithaca, NY

Exp. 2025

- GPA: 3.842/4.0
- Relevant Coursework: Object-Oriented Design and Data Structures (Honors), Discrete Structures, Data Structures and Functional Programming, Intro to Analysis of Algorithms, Intro to Machine Learning, Computer System Organization and Programming, Intro to Database Systems, Operating Systems, Intro to Computer Networks, Numerical Analysis: Linear and Nonlinear Problems

SKILLS

- Languages: Python, Java, SQL, C#, OCaml, JavaScript/TypeScript, HTML/CSS
- Frameworks: React, .NET, Django
- Tools: Git/GitHub, VS Code, JetBrains IDEs, Terraform, Nginx, AWS, Docker, Jira
- Methodologies: Agile, Canary Testing

CERTIFICATIONS

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

EXPERIENCE

Klaviyo

Software Engineer Intern

Boston, MA

June. 2024 – Aug. 2024

- Collaborated with Site Reliability Engineering Web Infrastructure and Gateway team to create multi-tenant webserver test
- Architected and developed system to parallelize HTTP request testing using Terraform and Python
- Implemented Infrastructure as Code to provision AWS Elastic Compute Cloud Auto Scaling Groups with security groups
- Built dynamic routing mechanism on Nginx Reverse Proxy using Jinja template and Linux Cron Job

Starburst

Software Engineer Intern

Boston, MA

May. 2023 – Aug. 2023

- Improved Growth and Billing Management service for Starburst Galaxy, a multi-cloud data analytics platform, on SaaS Foundation team
- Implemented pricing and packaging plan in Java, TypeScript with React, and SQL
- Integrated payment tiers into billing and entitlement system, added gates for paid tier features, and performed DB migrations
- Developed new free trial experience by updating billing and entitlement managers and creating notification events

MILL5

Software Engineer Intern

Boston, MA

May. 2022 – Aug. 2022

- Contributed to FinOwl, an application to retrieve quality market info through chat bots in platforms such as Microsoft Teams
- Developed internal administration site for managing users and products in C# with .NET and TypeScript with React
- Built REST API with n-tier architecture and created unit and integration tests
- Implemented SPA using RTK Query from Redux Toolkit and Metronic Bootstrap template

Cornell Design & Tech Initiative Project Team

Software Developer

Ithaca, NY

Nov. 2021 – Present

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

Harvard DASlab

High School Intern

Boston, MA

May. 2020 – Sep. 2020

- Improved 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 in JavaScript, HTML, and CSS
- Debugged and resolved issues involving corner cases for designing the storage engine configurations

PROJECTS

Wikipedia Auto-Categorization

Feb. 2024 – May. 2024

- Worked on automated Wiki article tagging system that employs Natural Language Processing and Graph Neural Networks
- Processed and filtered data and generated model visualization using PyTorch Geometric library

Raspberry Pi Cornell Bus Tracker

Jul. 2022 – Aug. 2022

- Built Cornell University bus tracker with Python, Raspberry Pi, and LED light strips
- Performed web scraping to collect route data and display real-time departure info through light colors, patterns, and flashing

Sunset Calculator

Feb. 2021 – Jun. 2021

- Developed website to calculate the quality of upcoming sunsets and sunrises in JavaScript, HTML, and CSS
- Transformed zip code into location data and then into sunrise/sunset data using APIs