

Abhay Thacker

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Experience

Software Engineering Intern

June 2022 – September 2022

Visa Inc. | Foster City, CA

- Designed and developed a mainframe command line tool that queries production databases and displays relevant transaction processing parameters (**C++, Assembler, IBM TPF**)
- Command line tool reduced time to validate changes to database parameters by 60%
- Migrated various C++ programs to be compliant with newer releases of GCC compiler

Vice President of Infrastructure

June 2022 – Present

CodeLab | UC Davis, CA

- Automated deployment of organization's projects using CI/CD pipeline (**Github Actions**)
- Developed IaC scripts to automate React App hosting on AWS (**AWS Cloudformation**)
- Oversee 1-2 development teams each term and guide them during project development

Undergraduate Researcher

August 2020 – July 2021

Gunrock Breakerspace | UC Davis, CA

- Investigated applications of state-of-the-art web tracking technique: browser fingerprinting
- Trained a Random Forrest Classifier to identify browser fingerprinting intent that achieved a performance metric of 0.87 (F1-Measure)

Projects

Hands Together Website

Technologies: NodeJS, ReactJS, ExpressJS, MongoDB, Stripe API

- Designed a full-stack app for a non-profit, Hands Together, on a software development team
- Built a custom shop with email and tracking notifications totaling over \$2000 in sales
- Implemented JWTs and guarded routes to protect the website from online threats

Stock Trading Platform

Technologies: Qt, C++

- Created a desktop app that retrieves real-time stock data and generates candle series
- Integrated a backtesting algorithm to evaluate the performance of popular trading strategies on 2+ million data points spanning the past 20 years

Education

University of California, Davis

Degree Expected: June 2024

B.S. Computer Science and Statistics | GPA: 4.0

- **Relevant Coursework:** Programming with Data Structures, Object-Oriented Programming, Algorithm Design & Analysis, Computer Networks, Artificial Intelligence, Operating Systems
- **Honors:** Dean's Honor List 2020-2022 Academic Years

Skills

Languages: C/C++, Python, JavaScript, HTML/CSS, MATLAB, x86-64 Assembly, R

Frameworks, Libraries & Technologies: WEKA, Git/GitHub, React, NodeJS, MongoDB, TPF