

Dhruv Vora

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Education

University of Waterloo

Sep 2020 – Present

Honours Computer Engineering (3.9 GPA)

- **Relevant Courses:** Operating Systems, Systems Programming & Concurrency, Data Structures & Algorithms

Professional Experience

Software Engineering Intern

May 2023 – Aug 2023 | Grand Cayman

Ether.fi

- Utilized Python's object-oriented programming for a consensus-based oracle, guaranteeing highly available and accurate metrics
- Led development of a **Python** and **Grafana** data analytics service, orchestrating timelines, financial transparency, and key project management tasks for informed decision-making by investors and business stakeholders.
- Leveraged **AWS** and distributed systems to automate highly available validator node spin-ups, resulting over **\$400k** in savings.
- Mitigated man-in-the-middle exploits with an AES-256-GCM encryption algorithm using **Go**, ensuring the integrity of staker keys

Software Engineer Intern

Sep 2022 – Dec 2022 | San Francisco, CA

Dropbase

- Improved code coverage by 61% by designing an end to end and unit testing suite using **Pytest**, Selenium, and **AWS Lambda**
- Enhanced user experience by improving caching mechanisms for expensive computations using hooks in **React** with **Typescript**
- Optimized **PostgreSQL** database transaction latency by 11% by monitoring usage and implementing connection pool middleware

Software Engineer Contractor

Apr 2022 – Mar 2023 | Toronto, ON

KPMG Canada

- Delivered infrastructure consistency by provisioning compute and networking services with **Terraform** files in **Azure**
- Composed Bash scripts to automatically configure **Nginx**, **DNS** records, systemd service, and **SSL** for virtual machines
- Saved over \$2400 in annual serverless app usage costs by designing an API rate limiter to filter spam with **Redis** and **Python**

Software Engineer Intern

Jan 2022 – Apr 2022 | Toronto, ON

KPMG Lighthouse

- Cut Pay Equity process from 2 weeks to 2 mins by developing algorithms using **Pandas** and **concurrent programming**
- Received \$500k to replace the internal recognition platform with ERC721 smart contracts using **Solidity**, **FastAPI**, and **React**
- Streamlined consultant workflow by training an **NLP** model to classify job titles using data webscraped with **BeautifulSoup**

Full-Stack Developer Intern

May 2021 – Aug 2021 | Toronto, ON

Polar

- Reduced **React** application build and deployment to production times by caching folders used in previous **Jenkins** builds
- Optimized **CSS** modules by replacing redundancies to improve stability, browser compatibility, and reduce rendering time by 10%

Leadership & Community

Software Team Lead

Jan 2021 – Sep 2021

Watlock Design Team

- Utilized an Agile approach to collaborate with 6 team members over 6 months, leading to 2nd place in the competition
- Improved data transfer speeds by using C and checksums to build a UDP bus to drive an Arduino based data collection engine

Projects

RTX Kernel

Programmed on a DE1-SoC board using C to support dynamic memory and task management, inter-task communication, and I/O

Systolic Array Matrix Multiplier

Efficient Linear-time Matrix multiplier implementation in Verilog on an FPGA board using systolic arrays

Skills

Languages (Python, Golang, C, C++, JavaScript, TypeScript, Solidity, SQL, HTML/CSS)

Tools (Linux, AWS, Docker, Kubernetes, React, Azure, Terraform, Node.js, Pandas, PostgreSQL, Kafka, Git)