

Abenav Vijayakumaran

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EDUCATION

University of Toronto

Expected: Dec. 2023

Honours Bachelor of Science in Computer Science

Toronto, ON

- 3.6 GPA
- Dean's List 2018 - 2023, U of T Scholars Award
- Courses: Software Design, Design & Analysis of Data Structures, Algorithm Design, System Programming

TECHNICAL SKILLS

Languages: Java, C/C++, Python, JavaScript, TypeScript, Go, Rust, Ruby, SQL (PostgreSQL), HTML/CSS/SCSS

Frameworks: React, Node.js, Express, Django, Rails, Angular, Vue

Developer Tools: Git, Jira, Bitbucket, Docker, AWS EC2, AWS S3, Heroku, Unix

EXPERIENCE

Software Engineer

May 2023 – Present

Ceridian

Toronto, ON

- Contributed to a new self-service app page to offer users a centralized view of asynchronous jobs and the ability to cancel them, positively impacting **4,700+ organizations** that create an average of **425+ jobs/day** with this feature's release in production
- Developing **GraphQL API** to replace legacy **REST API**

Software Engineer Intern

Jan. 2023 – April. 2023

Questrade

Toronto, ON

- Hosted component library using **AWS S3** and **CloudFront** and handled authentication with **Lambda** and **Cognito** in an application that serves **4,500+** requests per month
- Developed APIs in **TypeScript** consumed by **12+** existing applications, with **100%** unit testing

Software Engineer Intern

May 2022 – Aug. 2022

Basis Technologies

Chicago, IL

- Improved scraping connections for **1,130+** customers, reducing failing users by **65%** for a major vendor
- Automated **Jenkins** batch functions to update **PostgreSQL** instances with **1000+** test client information
- **Migrated 600+** lines of legacy **Angular** code to **React** to improve code maintainability and user experience using micro-frontend architecture

Software Engineer Intern

Sept. 2021 – Dec. 2021

Government of Canada

Toronto, ON

- Created a full-stack solution to reduce the number of deployments and developer time by **44%** by creating an easy-to-use and modular deployment configuration editor
- Implemented comprehensive unit testing in **Mocha** and **Chai** to validate performance, functionality, and compatibility across different platforms.

Web Development Intern

May 2020 – June 2020

Espresso Labs

Toronto, ON

- Developed a full-stack Chrome Extension for Twitter using **React.js** and a **Firebase** real-time database
- Enabled users to log in via Twitter and save tweets directly in app, which can then be sorted by user-defined tags

PROJECTS

🔗 Livestreaming Application | *Nginx, Video.js, Node.js, Express, Bootstrap*

Apr. 2023

- Created a responsive, distributed streaming application using **Video.js** and HLS streaming protocol
- Integrated a realtime, multi-server chat client using **Nginx** and multithreading to enhance viewer experience

🔗 DevOps CI/CD Testing Framework | *Python, Jenkins, DataDog, Git, Elastic Search, ngrok*

Dec. 2022

- Developed scalable, end-to-end CI/CD framework for automated integration builds of GitHub repositories
- Used **ngrok** to host **Jenkins server**, enabling **GitHub webhooks** to retrieve applications for Jenkins builds