

Abenav Vijayakumaran

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EDUCATION

University of Toronto

Sept. 2018 - 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 Developer Intern

May 2024 – Present

Dayforce

Toronto, ON

- Developed end-to-end testing suite for micro frontends using **Selenium**, **Cypress**, **Node.js** and **JavaScript**
- Integrating Axe-core accessibility testing engine into Azure DevOps CI/CD pipelines

Software Engineer Intern

May 2023 – Aug 2023

Dayforce

Toronto, ON

- Optimized grid navigation performance by resolving numerous navigation bugs, including challenges related to scrolling behavior, escape/tab functionality, and the coordination between keyboard and mouse inputs
- Completely refactored several Storybook pages for accelerated developer experience using **TypeScript** and **React**
- Improved accessibility for **JAWS** and **NVDA** screen readers by refactoring key components, resulting in enhanced user experience for visually impaired individuals

Software Engineer Intern

Jan. 2023 – April. 2023

Questrade Financial Group

Toronto, ON

- Implemented secure authentication using **AWS Lambda** and **Cognito** for an internal API, protecting hundreds of thousands of transactions and sensitive financial data
- Designed a **TypeScript** program to efficiently batch process Trend Micro data loss incidents, reducing time spent monitoring alerts by **80%**

Software Engineer Intern

May 2022 – Aug. 2022

Basis Technologies

Chicago, IL

- Engineered new Switch, SearchField and IconButton components which conform to current **W3C** accessibility standards and provided detailed documentation of usage and best practices in **Storybook**
- Achieved and maintained **96%** code coverage by developing comprehensive unit tests using **React Testing Library** and interaction tests with **Storybook**

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
- Architected frontend to utilize reusable components and formalized data flow with **Redux**
- Implemented comprehensive unit testing in **Mocha** and **Chai** to validate performance, functionality, and compatibility across different platforms

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
- Seamlessly integrated test bench into existing pipeline using **DataDog** and **Jenkins**