Abenav Vijayakumaran

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EDUCATION

University of Toronto — Sept. 2018 - Dec. 2023
Honours Bachelor of Science in Computer Science — *Toronto, ON*
- 3.7 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
Dayforce — *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
- Created hoverable candidate profile cards for users to surface important information using **React**, **GraphQL** and **Flask** and rolled out to the **6000+** customer base, receiving positive feedback from enterprise customers such as **Marks & Spencer** and **Kraft Heinz**
- Developed **CI/CD pipelines** in Azure DevOps for **1000+ teams** to facilitate platform migration to GitHub
- Integrating **Axe-core** accessibility testing engine into Azure DevOps CI/CD pipelines

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**