Sean D'Souza

SOFTWARE ENGINEER | OTTAWA, ON

(+1) 613-864-6409 | ✉ seangdsouza@gmail.com | 🔗 https://github.com/seendsouza | 🔗 https://www.linkedin.com/in/seendsouza

Education

BASc in Software Engineering — University of Ottawa (GPA: 9.6/10)   Ottawa, Ontario   Sep. 2019 - Dec. 2023
- *Relevant Coursework:* Computing (Python, Java), Software Engineering, Digital Systems, Technical Report Writing, Calculus, Discrete Math

Work Experience

Frontend Developer, Intern — Ericsson   Ottawa, Ontario (remote)   May. 2020 - Aug. 2020 (4 months)
- Delivered a Proof of Concept (PoC) and release of a new UI (SAP UI) that configures the telecom network monitoring application at runtime
- Wrote a design doc detailing all the shareable components in the SAP UI that increased testability, readability and consistency
- Acted as scrum master by creating epics and stories for the productization of the SAP UI pertaining to RBAC, SSO, DevOps and technical debt
- Established a base for integration and end to end tests with WebDriverIO leading to a reduction in manual testing by 75%
- Integrated CI with GitLab Pipelines for the SAP UI and backend improving code quality and lead time
- Leveraged knowledge in: JavaScript, ClojureScript, Web Components, re-frame, Selenium WebDriverIO, Docker, Kubernetes, Helm, GitLab

Full Stack Developer — CC&SD Co.   Kingston, Ontario (remote)   Nov. 2019 - April 2020 (6 months)
- Architected, designed and developed a full stack e-commerce platform from the ground up (MERN Stack)
- Implemented PayPal Express Checkout, inventory management and shopping cart using an Express REST API
- Adapted client's requirements into a simple user/UX flow and minimalistic design by creating UI mockups in Figma and Adobe XD
- Deployed Kubernetes pods consisting of MongoDB, NGINX (frontend) and Node.js (backend) Docker containers on DigitalOcean
- Leveraged knowledge in: JavaScript (ES10), HTML5, CSS3, React, Redux, Node.js + Express, MongoDB, NGINX, Docker, Kubernetes

Junior Software Developer, Intern — CENX Inc.   Ottawa, Ontario   Jul. 2018 - Aug. 2018 (2 months)
- Extended a CLI program written in Python that summarizes gigabytes of FunkLoad test data from XML logs by improving runtime by over 200% using the ElementTree XML API
- Created a graphing program in Python and AWK that visualizes daily system logs (SAR) using NumPy and Pandas
- Refactored, fixed and restored an HTTP and WebSockets integration test that proved the existence of unresponsive endpoints in the product
- Leveraged knowledge in: Python, AWK, NumPy, Pandas, HTTP, WebSockets, XML, Apache Solr, Linux, Docker (+ Compose), Agile, Jira

Projects

vscout — TypeScript, React Native, Redux, CouchDB   Feb. 2020 - Apr. 2020
- Developed scouting software for the VEX Robotics Competition (VRC) that allows scouts to collect and analyze quantitative info about robots
- Composed design documents detailing architecture, design decisions, components, screens and actions
- Assigned stories to other developers, while verifying design and setting feature decisions

CU Hacking — JavaScript, Python, HTML, CSS, React, Redux, Jupyter Notebook, TensorFlow, Twitter API   Jan. 2020
- Created the UI for a web app that scrapes Twitter to find actionable and relevant tweets that customer support can respond to

Hack the North — Python, JavaScript, HTML, CSS, React, Redux, Flask, Google Vision API, MathPix API   Sep. 2019
- Produced the UI for BoardTeX, an app that uses OCR to convert images of math and CS notes into LaTeX

Hack the 6ix — Python, JavaScript, HTML, CSS, React, Redux, Flask, AWS S3, AWS Sagemaker   Aug. 2019
- Created the REST API for an application that speeds up the auto insurance claim process by identifying if a collision has occurred when given an image, and estimating the refund of a client based on their account details

VEX Robotics Competition (VRC) Robot — C++, Python, RTOS   Nov. 2018 - Feb. 2019
- Engineered an autonomous program using motion profiling, PID feedback control and driver control in C++, Python and the PROS library
- Won Excellence, Innovate, and Service Awards; and Tournament Champions at various regional competitions

Skills

- *Programming Languages:* Python , JavaScript, TypeScript, HTML, CSS, Clojure, C++, Java
- *Technologies:* React/Redux, React Native, Web Components, WebDriverIO, Node (Express), Flask, MongoDB, Docker, Kubernetes, Git, Unix

Extracurriculars

- Substitute Teaching Assistant (TA) for Trilogy Education/2U at Carleton University for Full Stack Flex Bootcamp (June 2020)
- Mentor for SETHacks; participant at 5 hackathons including Hack the North
- Mentor and software advisor for high school VEX robotics organization consisting of 7 teams
- Architecting a Level 5 autonomous race car (WIP)