SEAN D'SOUZA

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www.github.com/seendsouza ⚲

Student committed to developing quality and reliable software solutions

SOFTWARE ENGINEER

REFERENCE

During a 7-week period Sean ramped up to speed on our applications and workflow and delivered superior work. He delivered bug fixes, figured out a long-dormant software branch, brought it up to date and drove code reviews to make it merge-ready. He developed experience in Python, in Linux performance monitoring tools, and in a performance test framework called Funkload. He showed the maturity needed to work in a complex high-speed team by working within the team expectations, including dealing with remotely working colleagues, in a very reliable manner.

- Jonathan Crone
Senior Test & Verification Engineer at CENX

ADDITIONAL EXPERIENCE

Director, Director of Photography and Editor for Rogers TV program High School Happenings that obtained the highest viewer count on the channel

Drummer and Bassist at Holy Redeemer Parish's 7 PM youth choir

Lead Executive of Coding Club and Cinematography Club in high school

Lighting Director for musical Footloose at high school

Mentor for the high school VEX robotics organization 2381 consisting of 7 teams

Section Leader and Percussionist in Colonel By Secondary School's Senior Concert Band

York U Hacks 2018 participant

EXPERIENCE

CENX, Ottawa, ON
Junior Software Developer, 2018
- Worked with my clients (Performance Engineering Team) to create software solutions to aid with their daily jobs
- Introduced to test-driven development, distributed systems, Agile, containerization, microservices and DevOps
- Added to a script that summarizes test data from XML logs from the test framework Funkload written in Python used regularly by one engineer
- Developed a program in Python and AWK that graphs system performance metrics from system logs (SAR) used by two engineers
- Refactored, fixed and restored an HTTP and WebSockets integration test to evaluate if no data was lost when reaching the user, which helped spot a hidden bug in the product

Misc. Projects
vscout
Tech Lead, 2019 – present
- Open source scouting software for VEX robotics, but applicable to any type of competition written in Dart
- Identified problems with current methods of scouting and initiated a software solution
- Created documentation for contributors to enforce test-driven development and consistency within the code base
- Designed the project's architecture and peer-reviewed the design with other developers
- Learned new technologies like: Dart (language), Flutter (portable UI toolkit), and Sembast (NoSQL persistent store database)
- Reviewed other developers' code and implemented continuous integration to protect the production code from non-functional and inconsistent code

EDUCATION

University of Ottawa
Bachelor of Applied Science (BASc), Software Engineering (CO-OP) - 2019 – 2023

Colonel By Secondary School
Ontario Secondary School Diploma (OSSD) & International Baccalaureate (IB) Diploma - 2019