

Allen Lu

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Kyle Schweiger

115 St & 85 Ave

Edmonton

Alberta T6G 2R3

Re: Software Co-op (8 months)

To Kyle Schweiger,

As a passionate and fast-learning problem solver that is well-versed in developing mobile software applications and algorithm design, it is with great excitement that I have submitted my resume for consideration to be an 8-month numerical simulation and web development intern with the Civil and Environmental Engineering department at the University of Alberta. I am a vocal team-oriented developer well-versed in mobile application design, algorithmic prototyping, testing, and product presentation. I am excited about the opportunity to create numerical simulations that help understand the nuances of civil engineering practices in your organization alongside specialized experts. I am prepared to contribute to your company's technological goals in the pursuit of understanding specific factors and outcomes while performing any risk assessments, design evaluations, and security tests to ensure quality and efficiency.

I am currently in 3rd year pursuing a degree in computing science with a specialization in software practice at the University of Alberta. My focus is on using and understanding software on multiple levels, applying collaborative scrum and agile practices to software design and modification, database design, and the application of discrete mathematics. Please look at the following project examples from my resume, which outlines the competencies that I can leverage to further the goals of the Civil and Environmental Engineering department.

- Designed, prototyped, modified, and tested an elegant and efficient Mood-Tracking Android Studio mobile application in a team of 6 developers using Java, Github, Google maps, and Firestore API
- Created an LPT-Johnson CPU scheduler simulation that implements LPT and Johnson algorithms to prioritize jobs (400,000 simulated jobs generated randomly) by size
- Created a file-system simulation tool that allows a user to store files and directories onto a simulated HDD
 - Checks if the simulated HDD is eligible to mount
 - Allows file/directory creation and deletion, ls commands, cd commands, reading and writing

My resume provides further detail about the skill set I can bring to your team. I truly believe that my experience in programming coupled with my willingness to learn about new technologies will allow me to excel in the Civil and Environmental Engineering developers' environment. I hope we can schedule an appointment to talk, thank you for the consideration.

Sincerely,

Allen Lu