Supakorn "Jamie" Rassameemasmuang

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Highlights

- Combined 2+ years experience in software development; Currently core maintainer for Asymptote, a vector graphics language and a mathematical computational engine
- Fluent in C++, C, Python and proficient in Computer Graphics pipeline, OpenGL and elementary Vulkan.

Experience

- Software Developer, Dell-EMC (via HCL Technologies) (2019-2020, Internship)
  - Managed the internal testing system for VPlex Development;
  - Revised the testing suite for resilience against breakdowns, identified single point of failures in testing infrastructure;
  - Maintained `VPLEX` UI and backend server for user endpoint, including the `VPLEX REST` API;
  - Wrote documentations and best practice guidelines for `VPLEX REST` API.
- Asymptote Developer/Core Maintainer (2017 - Present, Seasonal)
  - Developed `xasy`, a Qt-based GUI Frontend for Asymptote, a vector graphics language.
  - Developed the underlying physically-based rendering pipeline based on shaders, alongside image-based reflections using CUDA and OpenGL.
  - Developed static analysis engine for Asymptote.
  - Asymptote is one of the leading standards in vector graphics and mathematical computation engine. Asymptote website is at `asymptote.sourceforge.net`.
- Researcher, The Maple Lab (Summer 2019)
  - Worked on VStringFuzzX, a generator and verified equisatisfiable transformer for string problems in benchmarking Boolean Logic Solvers using Coq.

Education

- University of Alberta - Bachelor of Science, Specialization in Computing Science with Mathematics
  - Cumulative GPA of 3.94, Graduating December 2021
  - Related Coursework: Algorithms, Analysis/Abstract Algebra, Probability, Video Game Design, Reinforcement Learning, Non-procedural programming languages, Computer Architecture, Queuing Theory

Skills

- Fluent in C, C++ and Python and Qt Framework, including modern C++ (C++17);
- Computer Graphics, including OpenGL and elementary Vulkan alongside underlying theory
- Software development in Unix Systems, including Linux
- Knowledge in Angular, Javascript and Junit testing framework
- Native/bilingual proficiency in Thai and English