Noah Curran

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(BRIEF) PERSONAL STATEMENT

I want to obtain a PhD to help me pursue a career in research. I am mainly interested in researching the realm of software systems, including operating systems, networking, security, and software engineering. In the long-term, I strive to become a professor at a university to continue as a life-long learner and researcher.

EDUCATION

Purdue University — **West Lafayette, IN**
B.S. in Computer Science and Mathematics — Expected May 2020
GPA: 3.77 / 4.0

COURSEWORK

- **Anticipated "tracks":** Systems Programming; Computational Science and Engineering; Programming Languages; Foundations of Computer Science; and Computer Graphics and Visualization.
- **Anticipated courses:** Computer architecture; Data structures and algorithms; Systems programming; Operating systems; Computer networks; Principles of concurrency and parallelism; Compilers; Programming languages; Analysis of algorithms; Fundamentals of computer graphics; Numerical methods; Numerical analysis; lots of math, including real analysis and abstract algebra

RESEARCH GROUPS

Continuous Analysis of Many CAMeras (CAM2, www.cam2project.net/) — **West Lafayette, IN**
Leader of the Software Engineering Research Group, PI: Dr. Yung-Hsiang Lu — Aug. 2018 – Present

- Created training materials for effectively reviewing code in a research setting and lead several training workshops
- Investigating the software engineering processes of popular open-source computer vision projects
- Invited author for the code review chapter of the web-book found at se4ml.org/software/chapter_cr.html

Xroads Systems Exploration Lab (XSEL, thexsel.github.io/) — **West Lafayette, IN**
Undergraduate Research Assistant, PI: Dr. Felix Lin — May 2019 – Present

- Received REU funding to assist in the research over the summer of 2019
- Aided graduate students in discovering how to securely process data in edge devices
- Developed using a Raspberry Pi 3 Model B, using C to write the kernel code

WORK EXPERIENCE

Lawrence Livermore National Lab — **Livermore, CA**
Computation Intern at the National Atmospheric Release Advisory Center — May 2018 – Aug. 2018

- Aiding in the modernization of scientific software by utilizing modern web technologies (Node.js, TypeScript, and Angular) in order to boost efficiency during life threatening emergencies

Purdue University — **West Lafayette, IN**
Undergraduate Teaching Assistant, Department of Computer Science, CS 250 and CS 193 — Aug. 2018 – Now

- Aided Purdue computer science students by teaching the necessary skills to excel in course work
- Helped students debug breadboard circuits and programs written in ARM during lab times for an introductory computer architecture course

EXTRA CURRICULAR EXPERIENCE

Purdue Swim Club — **West Lafayette, IN**
Treasurer, National Meet Qualifier (2x) — Dec. 2018 – Now

- Handle organizations funding through approved transactions by Purdue's Business Office for Student Organization (BOSO) and maintains communication between the swim club's president and vice president and BOSO

Alpha Lambda Delta Phi Eta Sigma Honors Society — **West Lafayette, IN**
Webmaster — Apr. 2018 – Now

- Revamped the organization's website, making it more user friendly and visually appealing
- Keep members posted on various upcoming events and important documents

TECHNICAL SKILLS

Languages/Technologies: C, C++, TypeScript, Java, Angular, Node.js, Swift, C#, R, MATLAB, React