

Education

2015–2019 **BS–Computer Science, Mathematics**, *Purdue University*, West Lafayette, IN.

Specialization: Database and Information Systems, Machine Intelligence

Awards: Recipient of the Purdue University Presidential Merit Scholarship

Relevant Course Work, *Systems Programming in C and SQL, Data Structures and Algorithms in C++, Computer Architecture in C and Assembly, Object Oriented Programming in Java, Introduction to Entrepreneurship.*

Work Experience

Present **Undergraduate Researcher**, *Applied Optics Laboratory*, West Lafayette, IN.

Developing an iOS application that coordinates with external hardware and sensors to analyze data. In addition, updating legacy Android applications, and algorithms development for picture processing and modulation in concurrency with OpenCV API.

Fall 2016 **Software Engineering Intern - BackEnd**, *IronGolfer*, West Lafayette, IN.

Created a backend framework using .NET backend server SDK and table API in C# for an iOS application, along with assisting the UI/UX team with FrontEnd development.

Summer 2015 **Research Intern - Automation**, *Angelhack*, San Francisco, CA.

Assisted in the development, revision, and automation, of the main submission system used for Angelhack hackathons.

Projects

WYAt, *Swift, C#/.NET, SQL, C++, PHP*, github.com/osterhagen/WYAt .

WYAt, or Where You At, is an app that allows Resident Assistant's (RA) to communicate efficiently with residents. Through WYAt, the RA can update their status and the students can see the status at a moments notice via website or an LCD display outside the RA's door.

gsh/mysh, *C/C++, Linux C, SQL*, <https://github.com/osterhagen/gsh-mysh> .

A customizable terminal interface to create dual commands to simplify task i.e. instead of mv foo/bar and then cd foo/bar, you could say mv-cd foo/bar and it would move your file and change your current directory

Technical Expertise

Programming / Scripting Languages.

Proficient: C/C++, Java, C#, Objective-C, Swift, SQL, Assembly

Familiar: Python, Ruby/Ruby on Rails, PHP

Programs/API's/Frameworks.

Proficient: .NET Framework, iOS Framework, Android Framework, Linux /Unix Framework, SOC/ARM RISC Architecture, OpenCV API, Bloomberg Terminal

Familiar: TCP/IP Protocols, Mac OS Framework, Chrome API, AWS, OpenGLut

Volunteer Experience

Present **Treasurer**, *BoilerMake Executive Board (Purdue's Collegiate Hackathon).*

Present **Sponsorship/Partnership Committee Member**, *BoilerMake Executive Board.*

2015-2016 **Issues and Facilities Committee member**, *Purdue RHA Legislative Branch.*

Awards: Appreciation of Service and Contribution - Executive Board

2015-2016 **Assembly-member**, *Purdue RHA (Residence Hall Association) Legislative Branch.*

2013-2015 **Patient Service Ambassador / Shift Leader**, *Kaiser Permanente Hospital.*