Ryan Schmid

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EDUCATION

Lehigh University, Bethlehem, PA *June 2022-May 2023*
Master of Science in Computer Science GPA: 4.00
Honors: President's Scholar Award (Awarded free tuition for high undergraduate GPA)

Lehigh University, Bethlehem, PA *August 2018-May 2022*
Bachelor of Science in Computer Engineering Overall GPA: 3.85
Bachelor of Science in Integrated Business and Engineering (IBE) – Finance
Honors: Highest Honors, Dean's List, Tau Beta Pi Engineering Honor Society, IBE Honors Program

WORK EXPERIENCE

Ernst & Young (EY) – Technology Consulting Intern *June 2021-August 2021*

- Worked with a team of consultants and software engineers to build four websites for an EY client.
- Implemented the client's homepage from given specifications using React, TypeScript, and Less.
- Added additional frontend functionality and styling while reporting to three scrum meetings per week.

Lehigh University – Academic Tutor *February 2021-May 2021*

- Conducted 2 sessions in *Intro to Electrical Engineering* and *Programming and Data Structures* for 3 hours per week while employing skills in communication and enhancing knowledge in the 2 courses.

PROJECTS

Parallel Programming Final Project *March 2023-May 2023*

- Parallelized three Traveling Salesman Problem algorithms using TBB and vector instructions in C++.
- Achieved greatest speedup (~7) on Jon Bentley's k-opt approximation algorithm using 8 threads.

Truman Project – Cornell Social Media Lab, Dr. Dominic DiFranzo *July 2022-August 2022*

- Wrote a Python program that generates realistic content for the Truman Platform, a site for researchers to conduct social media experiments in a controlled digital environment.
- Used OpenAI's GPT-Neo, an open-source image API, and other natural language processing libraries to produce posts with text and images modeled after those on a user-provided Reddit community.

Computer Engineering Senior Lab Project *August 2021-May 2022*

- Designed and built a blind spot monitoring and rear camera view system for bicycles.
- Programed a C++ application that takes sensor and camera input data and displays video feed on a small monitor via a microcontroller, using OpenCV to graphically highlight cars and other obstacles.

LEADERSHIP – Lehigh University

President, IEEE – Eta Kappa Nu Engineering Honor Society *March 2021-May 2022*

- Served as Treasurer from March 2020-March 2021.

Vice President, IEEE (Electrical & Computer Engineering Society) Student Branch *March 2020-May 2022*

PROGRAMMING LANGUAGES, FRAMEWORKS, AND SOFTWARE

Python, C/C++, SQL, Java, JavaScript, TypeScript, React, HTML/CSS, Less, MS Excel, Verilog, MATLAB

RELATED COURSEWORK

Advanced Algorithms, Parallel Programming, Machine Learning, Data Mining, Operating Systems, Internetworking, Database Systems, Software Engineering, Computer Architecture, Web Systems Programming