

Justin B. Helfman

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SUMMARY

Ambitious computer engineer with 3+ years of experience in software engineering and artificial intelligence. Vast exposure to project implementation, most recently with a project that saves an estimated 2000 hours per year by automating parts of software testing.

EDUCATION

Purdue University, West Lafayette, Indiana *August 2018 - May 2022*
B.S. Computer Engineering *GPA: 3.12/4.0*
Entrepreneurship & Innovation Certificate
Relevant Coursework: Microprocessor Systems and Interfacing (*Current*) • Artificial Intelligence (*Graduate Level*) • Introduction to Deep Learning (*Graduate Level*) • Introduction to Computer Communication Networks • Data Structures • Python for Data Science • Advanced C Programming

PROJECTS & TECHNOLOGIES

SARS-CoV-2 (COVID-19) Analyses *May-December 2020*

- (*Personal Work*): Administered predictive mortality and infection models and observed trends between these forecasts and global ratings by country of human development, free press, and mean years of schooling
- (*Coursework*): Investigated disease modeling methods and presented an ICML-style paper and findings

Computer Networking Design Projects *August - December 2020*

- Developed programs to emulate HTTP clients, servers, fork operations, and caesar cipher encryption
- Generated a routing protocol program using the User Datagram Protocol (UDP)

Deep Learning (Neural Networks) Design Projects *August - December 2020*

- Developed Neural Turing Machines, Convolutional LSTM, and Generative Adversarial Networks

New York City (NYC) Bike Traffic Probe *April-May 2020*

- Modeled biker congestion with respect to weather and bridges used to estimate citations distributed

Languages: C (3 years) • Python (3 years) • MATLAB (3 years) • C++ (0-1 year) • PowerShell (1 year)

Other: Unix (3 years) • Git (3 years) • Vim (3 years) • VisualStudio & Eclipse (1 year) • Tensorflow & PyTorch (0-1 year)

WORK & LEADERSHIP EXPERIENCE

Eaton Corporation, Moon Township, Pennsylvania – Co-op Program *January - April 2021*

Eaton Corporation, Plymouth, Minnesota/Remote – Software Engineering Intern *June - August 2020*

- Partnered in a scrum-based team, executing multiple sprint periods
- Supported migration of automated build and deployment servers from Jenkins to Atlassian Bamboo
- Organized and delivered a continuous integration/continuous development tool using virtual machines
- Presented project final summary saving an estimated 2000 hours per year

Alpha Epsilon Pi, Recruitment Chair, Executive Board Member (Purdue University) *January 2019 - November 2021*

- Orchestrated the recruitment team, enrolling a new member class, exceeding previous records by 35%
- Designed socially distant events during the COVID-19 pandemic increasing membership by 16%

GOJO Industries, Akron, Ohio – Summer Intern *May - July 2019*

- Collaborated with customer panel testing for prototyped Purell products
- Implemented an internal study and evaluated customer responses versus qualitative results

GOJO Industries, Akron, Ohio – Summer Intern *June - August 2018*

- Integrated into a research setting, studying product paradigms and their capabilities
- Documented final findings, and advised further actions to consider before product launch

GOJO Industries, Akron, Ohio – Summer Intern *June - August 2017*

- Partnered with customer outreach and quality assurance teams, overseeing product manufacturing
- Monitored the procedures of a quality assurance check on recently recalled products