

Ben H. Siri

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The Pennsylvania State University,
Bachelor of Science in Computer Science
Minor: Statistics

Class of 2025
Dean's List

University of New South Wales, Semester Abroad in Sydney, Australia

Spring 2024

Certifications

Machine Learning and Data Science Foundations | CMU

Ongoing

Relevant Courses

CMPSC 442: Artificial Intelligence | Python, GitHub

STAT 462: Applied Regression Analysis | R

CMPSC 448: ML and Algorithmic AI | Python

EE 456: Neural Networks | Python

CMPSC 331: Computer Org and Design | MIPS, Verilog

CMPSC 465: Data Structures and Algorithms

Work Experience

Front-End Intern, Aurora Innovations | React, Typescript, C++, GitHub, MobX

Summer 2025

- Built a video replay feature enabling remote operators to review autonomous vehicle events in real time
- Redesigned operator interface features, improving usability and response time in commercial operations
- Delivered end-to-end features with full test coverage using Playwright, contributing to integration stability
- Demoed to cross-functional teams and executives, incorporating design feedback in agile sprints
- Built a C++ feature to set default camera view dynamically, improving operator efficiency

Software Intern, OpenLiteracy | Javascript

Summer 2024

- Created an automated system using Google Apps Script for a team of 20 tutors to manage students
- Designed a messaging system with Twilio, focused on enhancing communication with caregivers
- Worked with a team of engineers to develop early-stage prototypes for AI-informed projects.

Lead Technical Developer, TrueHue | Next.js, AWS, GoogleCloud, scikit-learn, GitHub

2024 - 2025

- Initiated the use of classification models with scikit-learn for more accurate colorblind diagnosis
- Updated an existed HTML/CSS website into a modern React-based design
- Migrated the website to AWS Amplify and integrated Google's Firestore as a database solution
- Managed a team of 4 engineers, assigning work and conducting staff meetings/ progress checks

Front-End Developer, Carnegie Mellon University | Vue.js, GitHub

Summer 2023

- Spearheaded a model comparison feature for the team's modelverse.com site
- Implemented the use of Google Tag Manager to track user actions, increasing depth of collected data
- Worked with a team of master and PhD student to improve the site and address issues

Content Lead CMPEN 270, Penn State College of Engineering

Fall 2023 – Fall 2024

- Lead content designer, responsible for authoring all problem sets and answer keys for students
- Facilitated 2 weekly labs of 50 students per section, teaching logic design basics and HDL

Projects

Advanced Vehicle Team, Perception | Python, ROS2, GitLab

Fall 2024

- Developing the object detection and localization algorithms for autonomous vehicles
- Interfaced with vehicle camera and LiDAR for landmark localization strategies
- Participating in early-stage planning to align goals and set realistic deadlines

MNIST digit identification | Python, Pytorch

Fall 2024

- Constructed a backpropagation neural network for handwritten digit identification
- Experimented with autoencoder network structures to redraw digits after classification

Skills

Languages & Frameworks: Python, React, Next.js, Vue.js, TypeScript, HTML/CSS, R, SQL, Java, C/C++

Tools: TensorFlow, scikit-learn, VSCode, Linux, Git, GitHub, NeoVim