

# 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

CMPS 442: Artificial Intelligence | Python, GitHub

STAT 462: Applied Regression Analysis | R

CMPS 448: ML and Algorithmic AI | Python

EE 456: Neural Networks | Python

CMPS 331: Computer Org and Design | MIPS, Verilog

CMPS 465: Data Structures and Algorithms

## Work Experience

Fullstack Engineer, CyberCrucible inc. | React, SpringBoot, Ubuntu

Jan 2026 - present

- Full-stack developer at startup building web applications with React, TypeScript, and Spring Boot
- Develop features end-to-end from responsive UIs to RESTful APIs and database integrations

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 | React, Lambda, API Gateway, DynamoDB, Git

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, Lambda and DynamoDB 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

## Projects

Gopher Social | React, Go, Docker, PostgreSQL, Redis, Google Cloud

Spring 2026

- Built production REST API with JWT authentication and role-based access control
- Optimized performance with Redis caching, connection pooling, and rate limited
- Deployed via Docker to Google Cloud with CI/CD pipeline and structured logging

Advanced Vehicle Team, Perception | Python, ROS2, GitLab

Fall 2024

- Developing the objected 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

## Skills

Languages & Frameworks: Python, React, GoLang, TypeScript, R, SQL, Java, C/C++

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