Paul Struble

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Education / Skills

University of California, Berkeley
Computer Science (BA) & Data Science (BA)

May 2026
Cumulative GPA: **3.736**

Technical Skills

Languages:	Python • Java • JavaScript • HTML/CSS • SQL • C • RISC-V
Development:	Git • Docker • Node.js • Express.js • PostgreSQL • RESTful APIs • Unit Testing
Data Science:	Pandas • NumPy • Matplotlib • scikit-learn • Jupyter Notebooks

Coursework

Data Structures • Algorithms • Databases • Data Science • Artificial Intelligence • Computer Hardware
Discrete Math • Probability • Linear Algebra • Vector Calculus

Experience

Full-Stack Web Development
paulstruble.dev

July 2024

- Built a **responsive** portfolio website with **HTML/CSS/JavaScript**
- Implemented a simple **node.js RESTful API** backend with **express**
- Designed custom **JavaScript frontend** components from scratch
- Containerized with **Docker** and deployed with **Google App Engine**

Software Engineering
bWork

May - June 2024

- Developed a **web scraper** in **Python** to collect UC Berkeley maintenance data
- Extracted data **1.1 million** data points with **Selenium** and **BeautifulSoup4**
- Scraped and wrote **750,000**+ work orders and **400,000**+ requests to a **PostgreSQL** database
- Implemented **multiprocessing** to achieve **10x efficiency** gains

Projects

Home Price Predictor

A **linear regression** ML model to predict home prices in Cook County

- Python
- Pandas
- NumPy
- scikit-learn
- Matplotlib

CS61KaChow

A **low-level optimization** of a basic convolution function focused on high efficiency

- Pure C
- SIMD (x86)
- Multithreading
- Multiprocessing

Build Your Own World

A procedurally-generated, interactive, multiplayer **video game** styled after old-school RPGs and rendered in real time

- Java
- Princeton StdDraw
- OOP

CS61CPU

Built a functional **RISC-V CPU** from scratch using simulated logic gates and circuits

- Logisim Evolution
- RISC-V Assembly
- Datapath pipelining
- Modular design