Christopher **Sterza**

Full-Stack Web Developer and Designer

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Education

University of California, Santa Cruz (UCSC) — *Santa Cruz, CA*

B.S. in Computer Science — *Sept. 2020 — Jun. 2022*

- 3.84 GPA
- Cum Laude
- Dean's List

Work Experience

Santa Monica College — *Santa Monica, CA*

Computer Science Tutor — *Sept. 2013 — Jun. 2018*

- Helped the professors teach the concepts of Data Structures, Computer Architecture, Object Oriented Programming, Databases, and Algorithm Design.
- Assisted students with their coursework using various languages such as C, C++, Python, Java, Visual Basic, and SQL.

Self-Employed — *Los Angeles, CA*

Math Tutor — *Sept. 2010 — Jun. 2012*

- Helped various students grades 1–12 with their math classes.
- Topics covered include arithmetic, algebra, trigonometry, and calculus.

Skills

Frontend	Next.js, React.js, Vue.js, Three.js, Tailwind, SASS, HTML5
Backend	Node.js, Express.js, Bottle.py, SQL, Nginx, Docker, Py4web
Languages	Typescript, Javascript, Python, C, C++, Java, Go, Visual Basic
Other	Vercel, Netlify, Google Cloud, Git, Unix/Linux, LaTeX, Adobe Creative Suite, Figma, Blender

Projects

Deforestation Detector — Source | Live

HTML5, SASS, Javascript, Node.js, Three.js

A web application to promote awareness of deforestation in the Amazon Rainforest. Used Three.js and Blender to create and render an interactive 3D model of a subset of the forest. It contains features representing deforestation detected by the team's image recognition model.

Slug Cache — Source | Live

Vue.js, Py4web, Mapbox, Bulma

A web application to help UCSC students participate in geocaching around campus. Used py4web, Vue.js, and Mapbox to create an interactive map where users could navigate to, log, and suggest various geocaches on campus.

Distributed Key-Value Store — Source

Go, Gin

A distributed key-value store implemented in Go. Data was hashed, load balanced, and sharded across multiple servers. Operations were causally consistent and the servers resharded the data when any of them went offline.

Home Server

Proxmox, TrueNAS, Ubuntu Server

A home server I built to meet several of my home lab requirements. Used a hypervisor operating system to run various containers and virtual machines neccessary for my home projects.