

# Lucas Stone

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## EDUCATION

### Florida State University

*B.S. in Computer Science*

**May 2026**

*Tallahassee, FL*

**Relevant Courses:** C++ Data Structures & Algorithms, Databases, Python, Software Engineering, Linear Algebra, Operating Systems, Programming Languages, Advanced Artificial Intelligence, Data Science

**Clubs/Activities:** ACM Club (Member) and AWS Cloud Club (Member) @ FSU

## TECHNICAL SKILLS

**Languages:** C++, Python, HTML/CSS, JavaScript, SQL

**Technologies:** React, Node.js, Express, PostgreSQL, Tailwind CSS, Docker, Vite, OAuth 2.0, HPC

**Tools/Cloud:** Git, GitHub, Linux, Nginx, Postman, AWS (EC2, S3, RDS), HPC Systems (SLURM)

## EXPERIENCE

### Undergraduate Research Assistant (Python, HPC, Scientific Computing)

**Sep. 2024 - Apr. 2025**

*Florida State University - Department of Scientific Computing*

*Tallahassee, FL*

- Conducted computational research on boron nitride (BN) to identify its lowest-energy atomic structures.
- Utilized CALYPSO (PSO-based structure prediction) to computationally generate over 900 candidate configurations.
- Presented research findings in a poster at FSU's Undergraduate Research Symposium.

### Retail Salesworker (Parts Expert) (5+ Years Customer Service Experience From Jobs Before!)

**Oct 2024 - Present**

*AutoZone, Inc.*

*Tallahassee, FL*

- Provide technical assistance and troubleshooting in fast-paced retail environment while completing my CS degree
- Diagnose automotive issues and perform hands-on technical services including battery installation and electrical system tests

## PROJECTS

### Stock Portfolio Tracker ([www.trendtracker.co](https://www.trendtracker.co))

*Node.js, Express, PostgreSQL, React, Python, Twilio, Finnhub API, Yahoo Finance, Docker, Google OAuth, bcrypt*

**Apr. 2025**

- **Engineered a full-stack stock portfolio tracking application** with responsive React 19 frontend and RESTful Express backend, enabling users to monitor investments through real-time data, interactive charts, and automated price alerts
- **Implemented multi-channel notification system** using Nodemailer (Google SMTP) and Twilio API for SMS alerts, allowing users to receive price threshold notifications via the preferred method.
- **Developed Python scripts** for Yahoo Finance data processing to fetch historical chart data supporting the **full NYSE/NASDAQ stock exchange** across 6 interactive chart timeframes (1H, 1D, 1W, 1M, 3M, 6M)
- **Implemented intelligent API rate limiting and caching to optimize external API usage**
- **Containerized the application using Docker** with multi-stage builds and Docker Compose, self-hosted on a home Linux Debian server for cheap production deployment.
- **Implemented dual authentication using Google OAuth** and local login with bcrypt, securely storing user data and hashed passwords in a PostgreSQL database.

### My Self-Hosted Personal Portfolio Website ([www.lucasstone.xyz](https://www.lucasstone.xyz))

**Jan. 2026**

*React, Tailwind CSS, Vite, Framer Motion, EmailJS*

- **Built a modern, responsive portfolio website** with React and Tailwind CSS, featuring smooth Framer Motion animations, and an interactive star field background.
- **Developed a modular component architecture** with reusable UI elements and centralized data management, enabling easy content updates and scalable feature additions
- **Deployed on self-hosted Linux home server** with custom domain, integrating EmailJS for serverless contact form

## CERTIFICATIONS

- AWS Certified Cloud Practitioner (CCP), Amazon Web Services, Issued October 2025