

# Liam Cooke

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## SKILLS

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**Languages:** JavaScript, Python, Java, SQL, PHP, R, C

**Technologies:** MySQL, MongoDB, GCP, Express, React, Node.js, Next.js, Git, Flask, Langchain, PineconeDB

## WORK EXPERIENCE

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### Software Engineer

Nucleo Research, Inc.

(Remote) San Francisco, CA

Aug 2024 – Present

- Actively engaged in ongoing research and development of innovative solutions in AI and biotech, contributing to cutting-edge advancements at the intersection of these fields
- Architected solutions built with Python, LangChain, OpenAI, and Firebase, leading to improved efficiency and scalability in Retrieval-Augmented Generation (RAG) pipelines used across various platforms
- Served as backend team lead and collaborated with cross-functional teams to optimize the architecture for performance, scalability, and data security across the integration ecosystem

### Lead Software Engineer

The Statesman

Stony Brook University, NY

Mar 2023 – May 2024

- Led the management, redesign, and development of Stony Brook University's online newspaper using WordPress, serving over 17,000 students and faculty members; maintained content and special issues on platforms like Issuu
- Oversaw ad content scheduling, plugin updates, and core site functionalities to ensure consistent and reliable site performance

### Backend Developer Intern

Henry Schein

Melville, NY

May 2023 – Aug 2023

- Designed and implemented a teeth-ordering API for the Global E-Commerce Platform (GEP) initiative using MuleSoft Anypoint Platform, enhancing order processing capabilities
- Collaborated in daily scrum meetings with 15+ team members and built complex Mule Flows, Error Handling strategies, and Message Queues to improve workflow efficiency and system reliability

### Code Instructor

theCoderSchool

Roslyn, NY

May 2022 – Oct 2022

- Taught and mentored students from 5 to 16 years old in mastering computer science concepts by developing a project-based curriculum utilizing Scratch, Python, Java, HTML/CSS, and JavaScript
- Managed a robotics camp for 8+ students, guiding them in programming games and problem-solving with robots; documented and reported progress to parents via an online platform

## EDUCATION

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### Stony Brook University

Bachelor of Science in Computer Science

Stony Brook, NY

2020 – 2024

Honors: Honors College, Computer Science Honors Program, Presidential Scholarship, Dean's List

Related Coursework: Java Programming, Software Engineering, Algorithms, Web/Software Security, Computational Finance

## PROJECTS

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### Mesters | Personal Project for 1k+ Students

- Used JavaScript, PHP, and MySQL to build a database application for students to upload and study exam curricula
- Presented on the design and development of the website from ideation to execution to a group of over 25 students and faculty, breaking down technical concepts to an approachable and intuitive level

### Stony Brook Finance Society | Personal Project

- Used Next.js with the Google Calendar RESTful API and Figma to design and build a website to provide easy access to resources, information, and upcoming events
- Collaborated with Stony Brook Finance Society club leaders, presenting design updates and gathering valuable feedback through A/B testing to enhance user experience

## ACTIVITIES

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Alpha Kappa Psi – President

2023 – 2024

Stony Brook Finance Society – Vice President, Chief Technology Officer

2022 – 2024

Stony Brook Computing Society, Investment Club, WUSB Radio Station – Member

2021 – 2024