

SAMUEL P. LEMPP

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LANGUAGES & FRAMEWORKS

- JavaScript
- TypeScript
- Java
- PHP
- Python
- SQL
- React
- NextJS
- Node.js
- HTML/CSS
- React Native
- Cypress
- MongoDB
- Docker
- Kubernetes

WORK EXPERIENCE

IXL Learning – Morrisville, NC

Senior Software Engineer - Rosetta Stone

Jan 2026 – Present

Software Engineer - Education.com, Rosetta Stone

July 2024 – Jan 2026

- Spearheaded React component architecture, style organization, and design system guidelines for an end-to-end rewrite of Rosetta Stone’s mobile/web application, directly building core interactive content features and optimizing workflows for parallel team development.
- Orchestrated the frontend integration of Rosetta Stone’s speech recognition engine specialized for language learning, ensuring feature parity across web and mobile platforms.
- Architected and executed a high-volume URL redirection system for automated search result pages, conducting performance testing to ensure backend scalability while driving major frontend UI overhauls that significantly improved SEO and user retention on Education.com.
- Investigated and mitigated a sophisticated, months-long fraudulent credit card testing attack and partnering with payment and infrastructure teams to secure the Education.com platform.
- Promoted code quality by leading the implementation of automated end-to-end testing frameworks, establishing engineering best practices, and mentoring cross-functional teams.
- Acted as a technical bridge across product, digital marketing, and design teams, translating complex architectural trade-offs into clear business strategies to facilitate data-driven product decisions.

Cadence Design Systems – Remote

May 2022 – July 2024

Software Engineer II - Allegro X AI

- Worked as part of an R&D team to launch a novel cloud-based tool for the automation of printed circuit board (PCB) design using machine-learning and artificial intelligence.
- Owned frontend design and development for the customer-facing web application, building custom JavaScript web components for complex form inputs, real time status updates, and data visualization.
- Collaborated directly with customers to build new features and enhancements.
- Deployed Kubernetes microservices and jobs in a modern cloud infrastructure using custom event-driven cloud management Java framework on both internal servers and AWS.
- Ensured compliance with information security protocols to protect sensitive, proprietary data.
- Improved Jenkins and Github Actions pipelines for automated integration and regression testing to speed up development and ensure quality of results.

Millennium Print Group, The Pokémon Company – Cary, North Carolina

June 2021 – August 2021

IT Special Projects Intern

- Collaborated with management to build a production status reporting system and migrated the existing reporting infrastructure to integrate with client systems.

EDUCATION

UNIVERSITY OF NORTH CAROLINA – Chapel Hill, North Carolina

August 2018 - May 2022

Bachelors of Science, Computer Science, Minor in Data Science

- **Relevant Courses:** Operating Systems, Software Engineering Lab, Modern Web Programming, Models of Language and Computation, File Structures and Databases, Computer Organization, Analysis of Data Structures, Linear Algebra for Applications, Multivariable Calculus, Discrete Mathematics
- **Leadership: Chapter President, Sigma Chi Fraternity:** Responsible for operations, overseeing committees and officers, acting as representative in all campus involvement. Organized fundraising events to support local businesses impacted by the pandemic and help provide clothing to children.