

Byron Richards

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EDUCATION

University of Virginia

B.A in Computer Science

Graduated May 2024

WORK EXPERIENCE

Software Engineer

Kentro — *Aug 2024 - Present*

- Led development of a secure office sign-in web application using React, TypeScript, and TensorFlow facial recognition; deployed via Docker to AWS ECS.
- Developed supporting APIs and AWS backend services (Lambda, S3, DynamoDB, Step Functions) using Python CDK to enable core app functionality.
- Built React Native mobile app with Microsoft SSO, providing employees access to internal tools; managed releases to App Store and Google Play.
- Implemented the frontend of a Tableau extension (.tbwx) that connects to a local React app for real-time data visualization.

Software Engineering Instructor

Forge — *Aug 2022 - June 2024*

- Taught comprehensive web development curriculum (React, APIs, databases, Git) through 3-hour weekly classes and office hours for four consecutive semesters.
- Led two internship programs, including a 3-week full-time summer training on React, Express.js, APIs, and databases.
- Interviewed and selected candidates for the software engineering program.

Software Engineer

Forge — *Sep 2023 - Feb 2024*

- Built a full-stack talent board using Next.js, TypeScript, and Airtable to connect students with potential employers.
- Worked in a 3-person Agile team, managing tasks via Trello and participating in code reviews.

Software Engineering Intern

Kentro — *June 2023 - May 2024*

- Built serverless AWS backend (API Gateway, Lambda, Step Functions, S3, DynamoDB) with infrastructure as code using AWS SAM.
- Participated in daily standups as part of a focused two-person dev team.

Computer Systems Teaching Assistant

University of Virginia — *Jan 2023 - May 2023*

- Assisted 500+ students with concepts from binary representation to C programming.
- Led weekly labs covering hex image manipulation, logic gates, network sockets in C, SSH, and Assembly.
- Provided technical guidance and feedback on assignments.

TECHNICAL SKILLS

JavaScript, TypeScript, React, Next.js, React Native, HTML/CSS, Tailwind, Express.js, Python, SQL, AWS, Docker, Java, C, Bash, R, Git, Tableau