

Byron Richards

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EDUCATION

University of Virginia

B.A in Computer Science

Graduated May 2024

Coursework: Data Structures & Algorithms, Discrete Mathematics, Computer Systems & Organization, Database Systems, HCI, Data Science

WORK EXPERIENCE

Software Engineer

Kentro — *Aug 2024 - Present*

- Developing React/TypeScript web app serving as central hub for company data (contracts, finance, HR) with chart visualizations and API calls to data lake via API Gateway + SQL queries.
- Contributed to AWS data lake infrastructure by improving Python batch jobs and creating Athena views for data querying across multiple sources (Unanet, Salesforce, Workable, SharePoint).
- Shipped React Native mobile app with Microsoft SSO for employee access to internal tools on App Store and Google Play.

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 Engineering Intern

Kentro — *June 2023 - May 2024*

- Created React/TypeScript office sign-in web app with facial recognition (TensorFlow) and Tailwind CSS, featuring admin access levels, data export capabilities, and visitor photo/signature storage.
- Built supporting serverless AWS backend using API Gateway, Lambda, Step Functions, S3, and DynamoDB with infrastructure as code via AWS SAM.

PROJECTS

Talent Board — *Next.js, TypeScript, Airtable*

- Created student portal for uploading resumes, profile photos, and bios with messaging system for employer outreach, and employer dashboard to browse student profiles and view resume information.

Recipe App — *React, Express.js, OpenAI, Firestore, Edamam API*

- Built recipe discovery app fetching recipe data and images from Edamam API with save functionality to Firestore database.
- Integrated OpenAI chatbot to provide cooking assistance and recipe recommendations.

Local Flashcards App — *PHP, XAMPP, MySQL*

- Built Quizlet-style flashcard application with locally hosted MySQL database via XAMPP.

TECHNICAL SKILLS

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