

Byron Richards

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EDUCATION

University of Virginia

B.A in Computer Science

Graduated 2024

WORK

Software Engineer

IT Concepts — Sep 2023 - Present

- Developed a data lake aggregating data from APIs (Unanet, Salesforce, Workable, SharePoint, UKG) for business performance analysis.
- Built APIs to fetch data for Tableau dashboards and a React app, presenting insights to C-suite stakeholders.
- Developed and maintained a mobile employee hub app with Microsoft authentication, using AWS (S3, DynamoDB, Lambda, Step Functions) and Python CDK for infrastructure deployment.
- Managed regular release cycles for the React Native app on App Store and Google Play.

Software Engineering Instructor

Forge — Aug 2022 - June 2024

- Taught web development (React, APIs, databases, Git) through 3-hour weekly classes and office hours at UVA's Forge House for three consecutive semesters.
- Led two internship programs, including a 3-week full-time summer training on React, Express.js, APIs, and databases.
- Conducted interviews and reviewed applications for program selection.

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

IT Concepts — June 2023 - Aug 2023

- Developed a secure office sign-in React app with TypeScript and facial recognition using TensorFlow.
- Built a serverless AWS backend (API Gateway, Lambda, Step Functions, S3, DynamoDB) with infrastructure as code using AWS SAM, containerized the application with Docker, and deployed it to AWS ECS.
- Participated in daily standups as part of a 2-person team.

Computer Systems TA

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.

SKILLS

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