

TIRTH SHROFF

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WORK EXPERIENCE

Forward Deployed Engineer

July 2022 - Present

C3.ai, Inc.

Chicago, IL

- Led the technical delivery of two concurrent multi-facility industrial IoT engagements as sole embedded field engineer supported by one associate, bringing **6** facility deployments online while ingesting roughly **2 billion** sensor readings across **800** sensors and resolving **25** critical defects through user acceptance testing.
- Delivered a generative AI application end-to-end as sole embedded engineer against an original two-person staffing plan, owning requirements gathering, backend integration, a custom UI, and a first-of-its-kind 3D spatial visualization capability for the customer's physical assets.
- Led a cross-functional team of **13** (engineers and contractors) through a major system migration for a Fortune 500 customer in under **6 months**, running knowledge-transfer sessions, unblocking engineers, and reviewing pull requests; the delivered application now analyzes **\$4.5B** in spend and has surfaced **\$165M** in savings opportunities.
- Built and released two reusable data-integration packages (industrial historian and cloud data platform connectors) into the company's shared library, cutting one partner customer's live-data-ingestion build time from several months to about **2 weeks**.
- Served as embedded lead engineer across **6+** customer engagements over 4 years spanning energy, industrial, and manufacturing sectors, owning data integration, UI delivery, and stakeholder/SME communication from kickoff through go-live.
- Mentored **5+** engineers (associate through senior level) across concurrent engagements, providing architecture guidance and onboarding support, and hosted weekly company-wide office hours to unblock engineers organization-wide.
- Designed and shipped an internal skills-tracking web application adopted by **150+** field engineers, delivered in parallel with an active customer engagement using AI-assisted development.
- Stepped in during a staffing shortage to concurrently support **4** active customer engagements without disruption, and traveled on-site to kick off a new engagement outside of core coverage areas.

Software Engineering Intern

May 2021 - Aug 2021

Virginia Tech ARC Lab

Blacksburg, VA

- Built and launched Login & Authentication functionality for a research web application using **Node.js** and **JavaScript**, and redesigned schemas in **MongoDB** for a role-based Student/Professor access system.
- Redesigned UI elements and began migrating the codebase to a component-based architecture using **React**.

PROJECTS

Amazon Clone | [Github](#), [Live Website](#)

Summer 2021

- Built a full-stack e-commerce site using the **MERN stack** with **Firebase** authentication and **Stripe API** checkout/payments, using modular **React** components and **MongoDB** for persistent per-user order history.

Google Keep Twin | [Github](#), [Live Website](#)

Summer 2020

- Built a **React** note-taking app using hooks and props to manage real-time state for adding, deleting, and persisting notes.

EDUCATION

Virginia Tech, College of Engineering

Blacksburg, VA

Bachelor of Science in Computer Science, Minor in Mathematics

Aug 2018 - May 2022

- **GPA:** 3.75/4.00 | **Dean's List:** Fall'18 - Spring'21
- **Coursework:** Software Design, Data Structures & Algorithms, Data & Algorithm Analysis, Computer Organization, Comparative Languages, Cloud Software Development, GUI Programming, Linear Algebra, Discrete Math, Applied Combinatorics, Applied Cryptography, Statistics

SKILLS

- **Languages:** Python, Java, JavaScript, TypeScript
- **Data & Databases:** PostgreSQL, Cassandra, MongoDB, SQL, KQL, Microsoft Fabric, Industrial Historian APIs
- **Frontend:** HTML5/CSS3, React, Redux, RxJS, Angular
- **Delivery & Practice:** REST API Integration, ETL Pipeline Design, Performance/Scalability/Reliability Testing, Agile/Gitflow, AI-assisted Development
- **Leadership:** Cross-functional Team Leadership, Mentorship, Stakeholder & SME Management, Solution Delivery