

Reece Tuscano

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PROFESSIONAL EXPERIENCE

University of Houston at Clear Lake

Jan 2025 - Dec 2025

Research Assistant

Houston, USA

- Developed an immersive VR microbiology lab simulation using Unity C#, Unreal (C++/Blueprints) and Blender, enabling students to practice complex workflows like DNA sequencing in a safe virtual environment.
- Created and optimized 50+ 3D assets and environments, improving performance by 20% while collaborating with faculty and student teams using Agile methodologies (weekly sprint planning, standups, and iterative feedback).

IDFC FIRST Bank

Jul 2022 - Jul 2024

Software Engineer

Mumbai, India

- Built internal developer tooling (scripts/CLIs) to automate deployments and environment bootstrap (config generation, pre-flight validation, log capture + rollback helpers), cutting manual runbook steps by 30%.
- Authored Terraform/CloudFormation modules to standardize AWS infrastructure across environments (VPC, security groups, IAM, EC2/RDS/S3), reducing config drift and environment inconsistencies.
- Improved production reliability by adding CloudWatch alarms + log-based alerts and building scheduled operational checks (backup verification, compliance validations, key-rotation reminders), speeding up issue detection and reducing manual follow-ups.

PROJECTS

E-commerce deals platform [🔗](#)

Jun 2025 - Jan 2026

- Architected a full-stack web app using React (Next.js 15) + TypeScript, shipping end-to-end features across UI, APIs, and database with production-ready code (validation, error handling, CI checks).
- Designed backend on AWS using S3 for media, PostgreSQL for core data, and ECS (Docker) for services; used Kafka to stream user activity events for feeds and analytics.
- Provisioned infra with Terraform + CI/CD, implemented JWT auth + least-privilege IAM, and added personalization/ranking so users see more relevant deals based on user activity.

PR Review Copilot [🔗](#)

Aug 2025 - Oct 2025

- Created an AI PR Review Copilot using tool calling + GitHub API to analyze diffs and generate summaries, test suggestions, risk-ranked files, code smells, and security notes with line level citations.

Android chat app [🔗](#)

Nov 2024 - Feb 2025

- Shipped a real-time Android app using Java and Firebase Realtime Database, implementing message states (sent/delivered/read), offline caching, and FCM push notifications with deep links.
- Developed a Spring Boot service using Firebase Admin SDK + PostgreSQL to provide chat metadata search, reporting moderation workflows, and secure admin APIs with token verification and test coverage.

SKILLS

Languages: TypeScript, JavaScript, Python, Java, C#, C, C++, SQL, Kotlin

Frontend: React, Angular, Next.js, HTML5, CSS, Tailwind

Backend & APIs: Node.js, Express, Fastify, REST, JSON, WebSocket, OAuth2/JWT, GraphQL, Spring Boot

Cloud/DevOps: AWS, Azure, Docker, Kubernetes, Terraform, Jenkins, GitHub Actions, CI/CD pipelines

Databases & Messaging: PostgreSQL, MySQL, MongoDB, DynamoDB, Redis, Oracle, Apache Kafka

Testing & Quality: Jest, PyTest, Postman, automated regression testing, contract testing, feature flags, blue/green

Certifications: AWS Certified Solutions Architect – Associate, ServiceNow Certified System Administrator

EDUCATION

University of Houston-Clear Lake

Aug 2024 - Dec 2025

Master of Science in Software Engineering, GPA: 3.93/4.0

Houston, USA

Coursework: Requirements engineering, Software Architecture, System Design, Software testing, Agile/Scrum

University of Mumbai

Aug 2018 - Jun 2022

Bachelor of Engineering in Information technology

Mumbai, India

Coursework: Big data analytics, Software Development, Machine Learning, Data Structures, DBMS

Research & Publications

Agile Methodologies in Supply Chain Management: A Systematic Review of Practices and Enabling Technologies, *Proceedings of the CSCI'25 International Conference, Springer Nature, 2025.*