

# Reece Tuscano

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## PROFESSIONAL EXPERIENCE

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| <b>University of Houston at Clear Lake</b><br><i>Research Assistant</i>   | Jan 2025 - Dec 2025<br><i>Houston, USA</i> |
| <ul style="list-style-type: none"><li>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.</li><li>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).</li></ul> |  |

  

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| <b>IDFC FIRST Bank</b><br><i>Software Engineer</i>   | Jul 2022 - Jul 2024<br><i>Mumbai, India</i> |
| <ul style="list-style-type: none"><li>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%.</li><li>Authored Terraform/CloudFormation modules to standardize AWS infrastructure across environments (VPC, security groups, IAM, EC2/RDS/S3), reducing config drift and environment inconsistencies.</li><li>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.</li></ul> |   |

## PROJECTS

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| <b>E-commerce deals platform</b> <a href="#">↗</a>  | Jun 2025 - Jan 2026 |
| <ul style="list-style-type: none"><li>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).</li><li>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.</li><li>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.</li></ul> |                     |
| <b>PR Review Copilot</b> <a href="#">↗</a>  | Aug 2025 - Oct 2025 |
| <ul style="list-style-type: none"><li>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.</li></ul>  |                     |
| <b>Android chat app</b> <a href="#">↗</a>   | Nov 2024 - Feb 2025 |
| <ul style="list-style-type: none"><li>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.</li><li>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.</li></ul>  |                     |

## 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

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| <b>University of Houston-Clear Lake</b><br><i>Master of Science in Software Engineering, GPA: 3.93/4.0</i> | Aug 2024 - Dec 2025<br><i>Houston, USA</i>  |
| Coursework: Requirements engineering, Software Architecture, System Design, Software testing, Agile/Scrum  |   |
| <b>University of Mumbai</b><br><i>Bachelor of Engineering in Information technology</i>                    | Aug 2018 - Jun 2022<br><i>Mumbai, India</i> |
| 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.*