# ATUL PARIDA

US Citizen authorized to work in USA & Singapore

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## EDUCATION

**Bachelor of Engineering in Computer Science**, Honors with Merit — June 2025 (expected)
- Singapore University of Technology and Design, Singapore — CGPA 3.9/5.0
- Focus Areas: Software Engineering, Financial Technologies; Minor in Artificial Intelligence

## TECHNICAL SKILLS

- Python, Java, Scala, SQL, Apache Spark, Hadoop, Kafka, Airflow, TensorFlow, Keras, React.js, NoSQL (MongoDB, Cassandra), RDBMS (MySQL, PostgresSQL, Supabase), Big Data Tools (GCP, Hadoop, Spark)

## WORK EXPERIENCE

**Data Science Intern** — Austin, Texas
QuantumStreet AI — May 2024 to Sep 2024
- Developed ETL pipelines for ETF data with Apache Airflow, reducing RMSE error by 40% and improving directionality by 50%.
- Deployed predictive models (LSTM, LTCNN, CTRNN, ARIMA) that outperformed production models in financial forecasting.

**Undergraduate Researcher** — Singapore
Singapore University of Technology and Design — Jan 2024 to May 2024
- Designed real-time, high-volume image data pipelines for efficient robotic marine ecosystem analysis in dynamic environments.
- Deployed autonomous underwater vehicles with cross-functional teams, streamlining data collection and scalable analytics.

**Software Developer** — Pune, India (Remote)
TwoKey, Inc. — Nov 2023 to Jan 2024
- Designed AI tools for data summarization within shared files using Python and Supabase to enhance user accessibility.
- Developed front-end components and microservices using Redux, Supabase, and PostgreSQL with cross-functional Lean teams.

**Software System Test Engineer Intern** — Singapore
Continental AG — Aug 2023 to Dec 2023
- Collaborated with Agile teams to conduct system and validation testing for automotive analytics in infotainment systems.
- Improved data validation efficiency by 30% using VBA, SQL queries, and BI tools, bolstering product quality and reliability.

## PROJECTS

**Unbind – Book Recommendation Website using React, PostgresSQL & Supabase** — Dec 2024 to Present
- Engineered ETL pipelines and optimized PostgresSQL queries for a scalable book-tracking platform built on React.JS and Redux.
- Integrated OpenLibrary API with Supabase for user account management, data storage and deploying recommendation models.

**Asimov Exchange – Real-Time Stock Market Simulation Platform** — Sep 2024 to Present
- Building a real-time stock trading simulation platform using FastAPI, React.js, and Yahoo Finance API for live market data.
- Deploying the platform on Vercel, utilizing Firebase Authentication and optimized data flows for high-performance scalability.

**Aircraft Identification Telegram Bot using TensorFlow, OpenCV & Python** — Feb 2024 to Mar 2024
- Deployed a Telegram bot with scalable data pipelines to classify aircraft via TensorFlow & OpenCV, trained on 15,000+ images.

**Emergen AI – Business Case Composition using GPT-4 & LangChain** — Jan 2024 to Feb 2024
- Implemented API-based ETL workflows to parse data and provide GPT-4-driven business insights on research articles & topics.

**Bank Churn Classification Models using XGBoost, KNN & Random Forest** — Jan 2024 to Jan 2024
- Built end-to-end ETL pipelines, engineered features and optimized ensemble models for 95% churn prediction accuracy.

## LEADERSHIP EXPERIENCES

**President & Treasurer, Swift Coding Interest Group** — May 2022 to May 2024
Led iOS & macOS app development club at SUTD in partnership with Apple Education, 150 members.

**President, SUTD Photographic Circle** — Mar 2022 to Feb 2023
Led photography club at SUTD, organized event photography and workshops for students, 70 members.