

PARTH KULKARNI

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EDUCATION

Syracuse University

Master of Science - Computer Science

Syracuse, NY

August 2023 - May 2025

- Relevant Coursework: Data Structures, Artificial Intelligence, Object Oriented Design, Databases, Machine Learning.

Pune University

Bachelor in Engineering - Information Technology

Pune, MH, India

August 2019 - June 2023

- Relevant Coursework: Cloud Computing, Operating Systems, Computer Architecture, Java Programming, Python Programming.

WORK EXPERIENCE

Neural Health Research Laboratory

Software Engineer | Consultant

Syracuse, NY

February 2025 - Present

- Economizing cost by \$9,000 per unit by spearheading development of a cost-effective, cross-platform mobile application (Flutter Framework, Dart Language) to replace industry grade Electromyography (EMG) sensors.
- Boosting speed of data access by 40% by implementing a scalable SQL-based database to handle user data locally on each device.
- Gathering technical requirements from Physiotherapists and adding calibration of about 30 degrees for Fault Tolerance to help people with improper leg movement.

MTX Group.

Software Engineer Intern

Schenectady, NY

May 2024 - August 2024

- Avoided the 50,000 SOQL Governor Limit by implementing Salesforce Apex Scheduled Batch Jobs, writing over 200+ test cases with code coverage of over 70%.
- Boosted response time by 30% by customizing Salesforce Service Cloud with a Round Robin strategy for case assignment.
- Analyzed user stories and compiled technical documentation to hand off to full time development team, cutting about 20% time of the pre-sales team.

Speech Markers. Pvt Ltd

Software Engineer Intern | Software Engineer

Pune, MH, India

June 2022 - August 2023

- Led development of [Ourlib](#), a product catering to needs of 2000+ libraries, owning its development from inception.
- Lowered costs of third-party applications by \$300 per year by introducing KOHA Library management software API, which supports Library standards (MARC 21) and over 50+ languages.
- Reduced build time by 4 hours by devising reusable Flutter Components and added Pagination for lowering load on API calls.

ACADEMIC PROJECTS

SplitEase (Bill-Splitting app using Flutter Firebase and OCR) ([Link](#))

November 2025 - December 2025

- Developed a completely free alternative to key premium bill-splitting features, resolving user frustration with recent paywalls and daily entry limits.
- Leveraged Google Stitch AI to accelerate UI/UX design by 90% by translating prompts into mobile interfaces. Integrated Firebase for notifications, increasing user engagement by 25%.
- Architected a sustainable, near-zero-cost application utilizing a Serverless/NoSQL architecture (Firestore) and optimizing API calls to ensure adherence to all permanent cloud free-tier limitations.

Flight Delay Prediction (ML, XGBoost, PCA) ([Link](#))

March 2025 - April 2025

- Led a group of 4 to make a predictive model using BTS and weather data, achieving accuracy by 15% predicting delay in flight timings.
- Tuned XGBoost via grid search and applied PCA for dimensionality reduction and model efficiency.

FIFA World Cup Prediction Model - Passion Sport ([Link](#))

September 2025 - November 2025

- Engineered an ML pipeline using Pandas, Scikit-learn (Gradient Boosting), and Python achieving 73% prediction accuracy on test set after rigorous feature engineering and model tuning.
- Created and deployed custom simulation logic to forecast 64 World Cup matches, validating complex real-world tournament rules against model's predictions.

LEADERSHIP EXPERIENCE OR HACKATHONS/COMPETITIONS

Recreation Services - Syracuse University

Intramural Referee => Soccer Supervisor

Syracuse, NY

August 2023 - May 2025

- Oversaw logistics for Intramural Soccer games for over 1000+ Students and staff.

SKILLS

- Java, Python, Dart, Haskell, HTML, CSS, SQL, AWS, Bedrock, Flutter, Spring Boot, React Native, JPA, JUnit, ReactJS, NumPy, Pandas, scikit-learn, Maven, Jira, GitHub, Postman, Docker, Figma, Android Studio, R Studio, Vercel, Salesforce, Power BI, Tableau, Excel, AWS, Azure, Kubernetes, Jenkins.

HOBBIES

- Soccer, Sports, Teaching, Music, Learning Languages, Hiking.