Pranav Bellam Prasad

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PROFESSIONAL EXPERIENCE

Associate Software Engineer [iOS Developer], Rakuten   Aug 2020 – Jun 2022 │ Bangalore, India
Products: Rakuten PointCard App, Rakuten PointCard Partner SDK
- Designed and developed the Partner Payments SDK. Implemented secure-auth login, device checks, keychain operations, and unique barcode authentication for users to scan and make payments easily.
- Implemented the Fraud Measure feature to improve payment authentication.
- Developed the Card Management screen to add/scan credit cards and enriched the user experience on the home screen by adding a movable bottom sheet.
- Implemented an In-App Messaging feature for the app.

Tech Stack: Objective-C, Swift, Xcode, Git

Technical Intern, Rakuten   Jan 2020 – Jul 2020 │ Bangalore, India
Products: Rakuten PointCard Website
- Setup the Apache OpenWhisk serverless infrastructure on Rakuten's OneCloud Platform.
- Designed and developed a highly scalable static page handler for the website using Serverless computing.
- Improved the throughput by 30% and supported high traffic volumes during Rakuten campaigns and Super-sales.

Tech Stack: Node.js, React.js, Docker, Apache OpenWhisk

EDUCATION

MS in Computer Science and Engineering,   Aug 2022 – present │ Buffalo, New York
State University of New York at Buffalo ⬈
   CGPA: 3.67/4.00

B.E. in Electronics and Instrumentation Engineering,   Aug 2016 – Aug 2020 │ Bangalore, India
R.V. College of Engineering ⬈

SKILLS

Programming Languages (Python, Javascript, Node.js, Swift, Objective-C)

Development Tools/ Platforms (Git, MySQL, Docker, Apache OpenWhisk, GCP, AWS Lambda, Apache Solr)

PROJECTS

Multi-Topic IR chatbot | Python, Flask, Apache Solr, Tensorflow   Aug 2022 – present
- Developed an end-to-end multi-topic Information retrieval chatbot capable of carrying out 15+ turns of coherent utterances.
- Indexed 200k+ multi-lingual Reddit data in Apache Solr and used it as the chatbot dataset.
- Used a pre-trained BERT model to classify chitchat and Reddit data, calculated the similarities of the top 20 retrieved documents with the user query, and responded with the document having the maximum similarity.

Decentralized Airport Baggage Tracking | Solidity, Node.js   Aug 2022 – present
- Implemented a decentralized airport baggage tracking solution to provide real-time updates of checked baggage using Blockchain technology and peer-to-peer networks.
- Developed Baggage Tracker smart contract to enable disintermediation in the system.

Automatic Floor Cleaning Robot | NodeMCU, IoT   Feb 2018 – Apr 2018
- Built a budget-friendly smart automatic floor cleaning robot using NodeMCU and integrated it with ThingSpeak Analytics IoT platform.
- Developed an algorithm for the robot to navigate automatically by avoiding obstacles ensuring maximum floor cleaning coverage.
- Enabled tracking of the robot cleaning patterns in real-time on the ThingSpeak IoT platform.

STUDENT ORGANIZATIONS

Chimera Racing, RVCE, Student Team Member   Jan 2017 – Jul 2018 │ Bangalore, India
- Improved the existing suspension system setup of the car using simulation and modeling techniques, for better cornering and handling performance.
- Improved the lap times of the car by 2-3 seconds on the Kari Speedway Racetrack, Coimbatore in the "Formula Bharat, 2018" event.