Pranav Bellam Prasad

🐱 bellam.pranav@gmail.com 🛛 📞 7164269704

PROFESSIONAL EXPERIENCE

The Research Foundation, State University of New York

Senior Research Assistant

- Collaborating with **Dr. Yu-Ping Chang** and a multidisciplinary research team from **UB School of Nursing** to design and develop innovative iOS apps aimed at enhancing mental health care for patients.
- Created configurable themes for improved user interaction and inducing calmness.
- Implemented 2-factor Authentication and encrypted chat for secure communication with Provider.
- Innovated an audio player with calming video backdrops, aiding in stress reduction through mindfulness assets.
- Developed daily check-in and goal-setting features for patient empowerment.
- Tech Stack: Swift, SwiftUI, UIKit, AVKit, Firebase, Node.js, MongoDB

Rakuten, Inc.

Associate Software Engineer

- Aug 2020 Jun 2022 | Bangalore, India • Designed and implemented Rakuten PointCard Partner payments SDK, integrating secure-auth login, device checks, keychain operations, and unique barcode authentication for seamless and secure payments.
- Engineered "Fraud Measure" to enhance payment authentication in the Rakuten PointCard iOS app.
- Developed card management screen for adding/scanning credit cards.
- Enhanced home screen UX with a movable bottom sheet showcasing latest promotional campaigns.
- Implemented an In-app messaging feature for easier communication.
- Awarded "Rakuten Excellence Award" for impactful contributions to Rakuten Payments.

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

Technical Intern

Jan 2020 – Jul 2020 | Bangalore, India

- Setup the Apache OpenWhisk serverless infrastructure on Rakuten's OneCloud platform.
- Designed and developed a highly scalable static page handler for the Rakuten PointCard website using Serverless computing.
- Improved the throughput by 30% and supported high traffic volumes on the website during Rakuten campaigns and super sales.

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

EDUCATION

MS in Computer Science and Engineering

State University of New York at Buffalo 🛛 Courses: Data Intensive Computing, Algorithms, Blockchain, Information Retrieval, Machine Learning CGPA: 3.67/4.00

B.E. in Electronics and Instrumentation Engineering

R.V. College of Engineering 🛛

SKILLS

Programming Languages

Python, Javascript, Swift, Objective-C, Java

Web Technologies

Git, Docker, Google Cloud, Hadoop, Spark, SaaS, FaaS, Apache OpenWhisk, Apache Solr

PROJECTS

IBM - Data Volume Reduction | Django, Python, Docker, IBM Cloud

- Designed a robust system to reduce the bandwidth requirement for the user, by performing data volume reduction on a docker container running on a FaaS(Function-as-a-Service) cloud platform.
- Demonstrated satellite image data size reduction through lossless compression, and featuring highly customizable and dynamic metadata-based filtering.
- Collaborated with IBM Fellow and IBM Research Chief Scientist Dr. Dinesh Verma

Multi-Topic IR chatbot | Python, Flask, Apache Solr, Tensorflow 🛛

- Developed an end-to-end Information Retrieval chatbot capable of carrying out 15+ turns of coherent utterances.
- Indexed 200k+ multilingual Reddit data in Apache Solr for use as a chatbot dataset.
- Utilized pre-trained BERT model for Chitchat and Reddit data classification, determining the top 20 document similarities for user queries, and generating responses.

Aug 2022 – Present | Buffalo, New York

Aug 2016 – Jul 2020 | Bangalore, India

Web Frameworks/ Libraries

Node.js, Express.js, REST, Flask, Pandas, Swift UI, UIKit, Firebase

Databases

MySQL, MongoDB, Firebase Realtime DB, Firestore

Feb 2023 – May 2023

May 2023 – present | Buffalo, USA

https://bellam.vercel.app

Aug 2022 – Jan 2023

Buffalo, NY **in** Pranav B P