PRANAV DULEPET

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EDUCATION

B.S. in Computer Science - Machine Learning, University of Maryland, College Park   Expected Dec 2024
Honors: Dean's List
Programs: QUEST Honors (Quality Enhancement Systems and Teams), FIRE (First-Year Innovation and Research Experience) - Capital One Machine Learning Track

SKILLS

Languages/Technologies	Python, Java, C, Swift, MIPS, JavaScript, HTML, CSS, Git, AWS, TensorFlow
Libraries/Frameworks	Keras, FastAPI, Pandas, MongoDB, Firebase, SQLite, React, Seaborn, Z3

EXPERIENCE

Software Engineer Intern   Jan 2023 - Present
Capital One   *College Park, MD*
- Enterprise Graph Services
- Using Python, PySpark, Node2Vec

Software Engineer Intern   Jun 2022 - Aug 2022
Evozyne   *Chicago, IL*
- Optimized the Gene Synthesis process with SMT solvers (Z3) to make the model 5x faster
- Visualized Gene Synthesis data to determine where the current model lacked efficiency and accuracy
- Utilized Python, SMT Solvers, Algorithm Design, Seaborn, Pandas

Software Engineer   Sep 2021 - Present
Hack4Impact   *College Park, MD*
- Developed Case, Service, Beneficiary Creation workflows for non-profit, Edu-Futuro as a project Tech Lead
- Implemented Dashboard and messaging portal for non-profit, Step Up Tutoring as a project Tech Lead
- Utilized React, Node.js, Firebase

Research Assistant   Jun 2022 - Aug 2022
University of Maryland, College Park   *College Park, MD*
- Implemented Python (OpenWPM) to collect and analyze data on persistent identifiers in the Web, AWS EC2 instance to run experiments, Python and HTML to visualize data.
- Worked under Professor Ido Sivan-Sevilla in the School of Information on "Contextual Privacy in the Web".

PROJECTS

College RO *Swift, SwiftUI, Python, Node.js, Rest APIs, MongoDB, AWS, GitHub, Google/Firebase Analytics*
Launched CollegeRO on the App Store helping college students find research opportunities, reaching a peak of 1k app units. (link)

LegalAI *scikit-learn, spaCy, Elasticsearch, Textacy, Blackstone, pytextrank*
Trained and tested documents from the Supreme Court and other legal groups to apply NLP techniques such as Classification, Similarity, Summarization. Implemented TF-IDF, LDA, BM25, textrank, etc. units. (link)

Things Near Me *Full-Stack iOS Development, Swift, UIKit, Firebase*
Developed Things Near Me, for people to share the availability of supplies in the neighborhood, reaching a peak of 1.6K app units. (link)

Music Recommender *TensorFlow, Keras, K-Nearest Neighbors, Triplet Loss, Python, Google Colab, GitHub*
Conducted ML research through recommending songs based off of user data in the form of playlists as part of the FIRE program. Presented project in the UMD FIRE research symposium and added full documentation into GitHub repository. (link)

Signs To Leads *Full-Stack iOS Development, Swift, UIKit, Firebase*
Created Signs To Leads on the App Store (18K impressions) for realtors to find the optimal locations for placing open house signs. (link)