

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

Machine Learning Intern Jan 2023 - Present

Capital One College Park, MD

- Identified, compared, and implemented an optimal similarity search tool for comparing financial embeddings
- Using Python, PySpark, Node2Vec, Graph Machine Learning

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 2021 - 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, Google/Firebase Analytics*

Launched CollegeRO on the App Store helping college students find research opportunities, reaching a peak of 1k app units. ([link](#))

LegalAI *Python, 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](#))

Aerial Object Detector *Python, YOLOv5, PyTorch, Google Colab, GitHub*

Developed a prototype of a model that classifies harmful and non-harmful objects in the air. Won **1st place** at the Northrop Grumman Innovation challenge at the University of Maryland. ([link](#))

ML Health App *Large Language Models, Python, SwiftUI, Swift, AWS, MongoDB, Google/Firebase Analytics*

Developed model to provide dynamic and personalized health plans for users. Mobile app coming soon.