Raj Thota
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Education

- **University of California, Berkeley - M.E.T. Program** — Berkeley, CA
  B.S. Electrical Engineering + Computer Science, B.S. — *Expected June 2024*
  - GPA: 3.77/4.00
  - Relevant Coursework: Structure & Interpretation of Computer Programs, Designing Information Devices and Systems I, Data Structures, Discrete Mathematics & Probability Theory, Linear Algebra
- **Washington High School** — Fremont, CA
  Salutatorian — *2017 - 2021*
  - GPA: 4.632 (Weighted)
  - Activities: Academic Top 10, DECA President, Technology Literacy/Cognitive Science Club Founder

Experience

- **EquityLane** — Berkeley, CA
  Software & Website Development Intern — *January 2022 - Present*
  - Utilizing Python libraries (Pandas, NumPy, Scikit-Learn, Keras) to create housing market models to predict property prices, return on client investments.
  - Developing web application using Django framework to allow potential clients to sample products.
- **Aesop Technology** — Taipei, Taiwan (Remote)
  Technology Consultant — *September 2021 - December 2021*
  - Developed data pipeline utilizing SQL and Python to gather and process prescription data for use in machine learning model validation.
  - Engineered product to automate generation of customer reports for use in customer medication prescription process.
- **Hilbert Matching** — Berkeley, CA
  Software Engineer Intern — *June 2021 - August 2021*
  - Spearheaded overhaul of company website using MERN tech-stack (MongoDB, Express, React, Node)
  - Developed cross-platform smartphone application using Flutter UI framework to create unified platform for clients.
- **Aspiring Scholars Directed Research Program** — Fremont, CA
  Machine Learning Researcher — *June 2020 - September 2020*
  - Developed binary classification model using decision trees algorithm to identify correlations between country statistics and national COVID-19 mortality rates (93.7% accuracy).
  - Utilized Scikit-Learn, TensorFlow to develop model; Pandas, Matplotlib, Seaborn to visualize findings.

Skills

Programming: C/C++, Python, R, Java, JavaScript, Swift, HTML/CSS, SQL, Scheme

Technologies: Flask, Django, MongoDB, MERN tech-stack, Linux, Git

Languages: Spanish (Working proficiency), Telugu (Limited working proficiency), Hindi (Limited proficiency)

Projects

Food for Thought: Web application allowing users to identify harmful ingredients/allergens in their food by scanning label. Technologies used: Django for website integration, Google Cloud Vision API for object character recognition, BeautifulSoup for web scraping to find nutritional information.

The NoProfit Website Services: Founded nonprofit organization offering pro-bono website development services to small local businesses. Developed 32 websites to date for various clients using MERN tech-stack. Streamlined organization budget to reduce costs by 27%.