

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 (W); SAT: 1570/1600
 - 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%.