

RAJ THOTA

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EDUCATION

University of California, Berkeley – Management, Entrepreneurship, & Technology Program

Expected May 2024

B.S. Electrical Engineering and Computer Science / B.S. Business Administration / B.A. Applied Mathematics

GPA: 3.772

Coursework: Structure & Interpretation of Computer Programs, Designing Information Devices & Systems I, Data Structures, Discrete Mathematics/Probability Theory, Multivariable Calculus, Abstract Algebra, Principles of Business, Data Arts, Introduction to Quantitative Finance

Affiliations: M.E.T Strategy Group, Traders @ Berkeley, Berkeley Institute of Electrical and Electronics Engineers

Skills: C/C++, Python (NumPy, Pandas, Matplotlib, Seaborn, Requests, Tensorflow, Keras, Scikit-learn, OpenCV), R, HTML/CSS, Java, Javascript (React, Express, Node), MongoDB, Swift, SQL, Git, Control Systems, Schematic Design, NLP, Neural Networks, Agile Methodology

PROFESSIONAL EXPERIENCE

EquityLane - Berkeley SkyDeck Startup

Berkeley, CA | Jan. 2022 - Feb. 2022

Software Engineer

Fractional home-ownership platform democratizing home equity participation

- Created housing market models to predict property prices/return on client investments using Python libraries (NumPy, Scikit-learn, Keras)
- Developed a web application using Django framework in order to allow potential clients to sample EquityLane's various products
- Drafted detailed 10-page documentation to allow non-technical users to access and utilize all programs

Aesop Technology

Taipei, Taiwan | Sep. 2021 - Dec. 2021

Technical Strategist - M.E.T. Strategy Group

Software firm using data analytics and AI recommendation systems to predictively prescribe medications

- Engineered product to automate generation of custom reports for use in customer medication prescription process to enhance customer safety
- Developed a data pipeline utilizing SQL and Python to gather and process prescription data for use in predictive model validation
- Presented multiple deliverables to Aesop Technology along with detailed documentation to allow products to be usable by a wide audience

Hilbert Matching - Berkeley SkyDeck Startup

Berkeley, CA | Jun. 2021 - Aug. 2021

Software Engineer Intern

Firm utilizing machine learning to intelligently and efficiently match small businesses with overseas manufacturers

- Spearheaded overhaul of company website using MERN stack (MongoDB, Express.js, React.js, Node.js), implemented authentication system
- Developed a cross-platform smartphone application using Flutter UI framework to create a unified platform and user experience for clients

LEADERSHIP & PROJECTS

Blue Origin - Strategy Consulting Project

Kent, WA | Oct. 2021 - Dec. 2021

- Evaluated the viability of potential commercial space ventures including space-based solar power to identify market opportunities
- Conducted a competitive landscape analysis and internal analysis on company operations to make strategic recommendations
- Summarized findings with recommendations in a presentation and 30-page report to Blue Origin employees

COVID-19 Mortality Risk Factor Identification Research

Fremont, CA | Jun. 2020 - Sep. 2020

- Developed a binary classification model using decision trees algorithms to identify correlations between country statistics and national COVID-19 mortality rates (93.7% accuracy); interpreted findings to make policy recommendations
- Utilized Scikit-Learn, TensorFlow to develop models; Pandas, Matplotlib, Seaborn to visualize findings

The NoProfit Website Services - Co-Founder

Fremont, CA | Jan. 2018 - Dec. 2020

- Founded a non-profit organization offering pro-bono website development services to small local businesses to bolster various businesses' marketing efforts during COVID-19 pandemic
- Developed 32 websites for various businesses/organizations in MERN tech-stack; streamlined organization budget to reduce costs by ~27%

AWARDS & ACHIEVEMENTS

- American Invitational Mathematics Examination (AIME) Qualifier (Feb. 2020)
- Presidential Volunteer Service Award: Gold (Jul. 2019)
- National Merit Scholarship Finalist (Dec. 2019)
- Major League Hacking - SigmaHacks I Hackathon: 2nd Place (Nov. 2019)
- Major League Hacking - SRC Hacks II Hackathon: 2nd Place (Jan. 2020)
- DECA International Career Development Conference: 3x Qualifier (May 2020)

ADDITIONAL INFORMATION

- Languages: Spanish (Working proficiency), Telugu (Limited proficiency), Hindi (Limited proficiency)
- Software: Microsoft Office (Excel, Powerpoint, Word), Adobe Photoshop, Adobe Lightroom, WordPress
- Career Interests: Quantitative Finance, Software Engineering, Product Management, Venture Capital, Consulting
- Interests: Sports (Basketball, Football), Stock Investing, Photography, Travel, Mathematics, Streetwear, Martial Arts, Poker, Crossword Puzzles