Pranav Iyer

818-800-5751 | pranavxiyer@u.northwestern.edu | linkedin.com/in/pranavxiyer | github.com/pranavxiyer

EDUCATION

Northwestern University   Evanston, IL
Master of Science in Computer Science   *Sep. 2024 – Jun. 2026*

University of California, Berkeley   Berkeley, CA
Bachelor of Arts in Computer Science (GPA: 3.60/4.00)   *Aug. 2020 – May 2024*

Relevant Coursework: Computer Programs, Data Structures, Discrete Mathematics and Probability Theory, Computer Architecture, Algorithms, Artificial Intelligence, Computer Security, Computational Models of Cognition

Skills: Python (NumPy, Pandas, Matplotlib, PyTorch, Scikit-learn, Plotly Dash, OpenCV), Java, C/C++, Javascript (NodeJS, React), HTML/CSS, Golang, Scheme, SQL, Regex, MongoDB, DynamoDB, Git, Linux, Unix, Docker, Kafka

EXPERIENCE

Center for Human Sleep Science   Berkeley, CA
Undergraduate Researcher   *Sep. 2023 – Sep. 2024*
- Worked under Professor Matthew Walker and Postdoctoral Fellow Omer Sharon in investigating human sleep
- Tracked head movement and breathing across overnight sleep videos using OpenCV for live and posthoc studies
- Applied movement distances as channels into EEG data to determine magnitude of changes in fMRI sleep pattern

Johnson&Johnson   New Brunswick, NJ
Software Developer Contract   *May 2023 – Aug. 2023*
- Developed a patient authorization tool in order to connect third party healthcare providers with Janssen Pharma
- Built an event based data pipeline that connected to client Salesforce instance and ensured HIPAA Compliance
- Used technologies such as NodeJS and Firebase to collect/validate data in streamlining digital patient experience

R.J. O'Brien&Associates LLC   Chicago, IL
Software Engineer Intern   *Jan. 2023 – May 2023*
- Increased runtime efficiency by 30% through the development of a Python script to calculate CUSIP stress
- Leveraged Bloomberg API in production of a CME Direct to Bloomberg Voice Trade code platform translator
- Collaborated with futures traders and engineers to optimize programming of hedge models through FIX parsing

Amazon Web Services   Berkeley, CA
Software Developer Contract   *Aug. 2022 – Dec. 2022*
- Developed a dashboard for Telco companies to analyze factors contributing towards their total cost of ownership
- Engineered a multi-web application for clients to input their customer needs and server sizes of cloud models
- Created an API to connect backend database, algorithm calculations, and saved financials with frontend dashboard

University of California, Berkeley   Berkeley, CA
Academic Student Intern   *Aug. 2021 – Aug. 2022*
- Provided content and academic support in the courses "Data Structures" and "Foundations of Data Science"
- Led small personalized sections of 30+ students through the class curriculum and relevant supplemental problems
- Presented introductory mini-lectures and worked in office hours to assist students with assigned labs and projects

PROJECTS

OddsJam NFL Sharp Books | *Python*
- Developed a script to analyze a dataset of main market NFL bets and identify the sharpest sportsbooks
- Compared winning/losing precision across sportsbooks through conversion of odd prices to implied probabilities

ELIZA Mental Health Chatbot | *Python*
- Implemented a program that stimulates psychotherapist behavior to engage with users and their mental health
- Trained keyword detection and response through modeling of neural networks and natural language processing

LEADERSHIP

Innovate@Berkeley   Berkeley, CA
Director of Recruitment   *Sep. 2022 – Dec. 2022*
- Organized a conference with 30+ companies, 10+ venture capital speaker panel, and a startup pitch challenge
- Hosted 400+ people through effective marketing and outreach within the Bay Area startup community