Qamil Mirza

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EDUCATION

University Of California Berkeley, College of Letters & Science **Expected: May 2026**
Bachelor of Arts, Data Science & Applied Mathematics Cumulative GPA: 4.00/4.00

Relevant Coursework
Data Structures & Algorithms, Linux System Administration, Deep Learning For Computer Vision, Linear Algebra, Discrete Mathematics & Probability Theory, Multivariable Calculus

WORK EXPERIENCE

Supa **Selangor, Malaysia**
Fullstack Software Engineer Intern May 2024 - August 2024
- Engineered and deployed a full-stack web app (PostgreSQL, Express, Node, React) on AWS EC2 to streamline the onboarding of new image annotators.
- Released features for 2 core services and an internal tool using Next.js, Vue.js, and Ember.
- Developed and demoed an image embedding generation and visualization tool for a prospective client.

Study Hub Asia **Selangor, Malaysia**
Assistant Project Administrator April 2021 - June 2021
- Conceptualized a digital platform to standardize child abuse reporting across Malaysia.
- Designed a [pitch deck](#) for project funding and created UI mockups with Figma
- Scraped web data on child care centers using BeautifulSoup to collect thousands of data points.

PathCheck Foundation **Remote | Massachusetts, USA**
Student Researcher Dec 2020 - Jun 2021
- Created infographics for paper-based COVID-19 vaccination card protocols.
- Conducted interviews with healthcare professionals to assess COVID-19 infrastructure in Malaysia.
- Co-authored two papers on [the MIT SafePaths Card](#) and [global COVID-19 vaccination practices](#).

PERSONAL PROJECTS

Brain Tumor Classification | [Github](#)
- Conducted data cleaning and EDA on MRI brain scans
- Built a CNN and applied transfer learning with VGG16 to classify tumors with 97% accuracy and ROC of 0.96

Credit Card Fraud Detection | [Notebook](#)
- Combated dataset imbalance with random undersampling and SMOTE and performed outlier removal based on IQR
- Trained four models; Logistic Regression achieved a weighted average precision, recall, and f1-score of 0.95

World Universities Rankings Dashboard | [Website](#)
- Conducted feature engineering on university rankings data.
- Deployed an interactive Streamlit dashboard for real-time filtering and visualization.

TECHNOLOGIES & LANGUAGES

Languages: Python, Java, Javascript/Typescript, SQL (postgres), HTML/CSS, Ruby
Frameworks: Next.js, Vue.js, Node.js, flask, express, Material-UI, ShadCN, Tailwind CSS
Developer Tools: Git, Docker, Kubernetes, AWS, Postman, Figma, IntelliJ IDEA, Visual Studio, Jupyter, Github
Libraries: Numpy, Dash, Streamlit, Axios, Scikit-learn, Pytorch, Tensorflow, Matplotlib, React, Keras, CV2