Kazi Amin

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EDUCATION

University of Central Florida — **Graduation: May 2026**
Bachelor of Science in Computer Science — GPA: 3.5
- **Academic Achievements**: *UCF Provost Scholar, Florida Academic Scholar*

WORK EXPERIENCE

Machine Learning Research Assistant — January 2024 – May 2024
University of Central Florida — *Orlando, FL*
- Explored the relationship between social media platforms and network science, aiming to improve the detection of malicious accounts on social networks using anomaly-detection algorithms.
- Improved random forest models using gathered clustering coefficient scores to achieve an overall 15% increase in detection accuracy using scikit-learn.
- Performed end-to-end data lifecycle tasks in Python, including extraction, cleaning, and modeling, for weekly reports using NumPy, Pandas, and Matplotlib.

Commercial Property Analytics Intern — June 2022 – August 2022
Palm Beach County Property Appraiser's Office — *West Palm Beach, FL*
- Optimized property appraisal processes by leveraging SQL and SPSS to reduce the number of parcels requiring physical appraisal in Palm Beach County.
- Developed autonomous Python scripts to update pre-existing property data to ensure that over 5,000 parcels were up to date for the 2022 Property Tax Roll.
- Assisted commercial property appraisers in creating spreadsheets and visual diagrams of property tax increases using Excel (VLookup, Pivot Tables, Index/Match) and Tableau.

PROJECTS

Eventify, Backend Lead, (Ongoing) | *Node.js, Express.js, PostgreSQL, Redis, Jest, BullMQ*
- Developing a full-stack event management platform to help university organizations create, manage, and promote campus events with features like role-based access control, messaging, and payment processing.
- Building RESTful APIs using Node.js and Express.js, ensuring efficient data handling as well as increased performance by implementing Redis caching and service concurrency techniques.
- Managing backend sprints in Jira, facilitating weekly meetings, and enforcing test-driven development with Jest to maintain high code quality.

Rate My Peer, Mobile Development Lead | *React.js, Flutter, Express, PostgreSQL, Jest*
- Designed and led the development of a full-stack web and mobile application to assist instructors in monitoring team dynamics and individual performances using anonymous peer reviews.
- Developed and optimized key mobile and web features, including real-time peer review submission, performance analytics, and user authentication, using Flutter for mobile and React.js for web.
- Ensured seamless backend integration with PostgreSQL and Express.js while adhering to test-driven development principles.

YouTube Trending Data Analytics & ETL Pipeline | *Python, Apache Airflow, Amazon EC2, Amazon S3*
- Developed an ETL Data Pipeline using Apache Airflow to extract, transform, and load YouTube trending data automatically in batch processing mode.
- Performed data analysis using Python (Pandas, NumPy, Matplotlib, Seaborn) to identify key traits that contribute to a video's likelihood of being on Youtube's Trending Page.
- Utilized AWS EC2 instances to deploy and manage the pipeline, leveraging Amazon S3 buckets for efficient storage and retrieval of processed datasets within the cloud.

ContactVault, Frontend Lead | *Linux, Apache, MySQL, PHP, Docker, Postman*
- Developed a secure full-stack CRUD web application enabling users to efficiently manage personal contacts using features such as user authentication and persistent, dynamic contact storage.
- Led the frontend team in designing and implementing the application using HTML, CSS, JavaScript, and Figma.
- Utilized Docker to containerize and manage front-end applications, ensuring a consistent development and deployment environment.

TECHNICAL SKILLS

Languages & Frameworks: React.js, Express.js, Node.js, Javascript, Flutter, Jest, HTML, CSS, Dart
Databases: Relational Databases (PostgreSQL, MySQL), Non-relational Databases (MongoDB)
Developer Tools: Git, GitHub, Figma, VS Code, Linux, Eclipse, Postman, Supabase, Heroku, Docker, Jira