Raffy Jalal

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Education

Drexel University, College of Computing and Informatics | Philadelphia, PA **Sept. 2022 – June 2027**

Bachelor of Science, Computer Science (Minor: Data Science), Pennoni Honors Program
Major Concentrations: Artificial Intelligence & Machine Learning, Computer Systems & Architecture
Coursework: Advanced Programming Techniques (C, Bash, Linux), Computer Programming (Python), Data Structures & Algorithms (C), Systems Architecture, Software Engineering (Java), Discrete Math

Technical Skills

Languages: C#, Python, Golang, JavaScript, TypeScript, Swift, Java, SQL, C
Technologies/Frameworks: ASP.NET Core, Blazor, Entity Framework Core, FastAPI, TensorFlow, PyTorch, Streamlit, React (JS/Native), NodeJS, REST APIs, PL/SQL, MongoDB, SwiftUI, Vision Framework, Plotly, HTML, CSS, Bash, Firebase
Development Tools: Azure DevOps (Boards, Repos, Pipelines), Git, GitHub, TFS, Visual Studio, Visual Studio Code, IntelliJ IDEA, PyCharm, Xcode, Postman, Linux, Android Studio

Work Experience

Holman Auto – Software Developer | Mount Laurel, NJ (Remote) **Sept. 2024 – Mar. 2025**

- Engineered full-stack applications using **C#**, **.NET**, **Blazor**, and **PL/SQL** to automate supply chain workflows and reduce manual data processing across multiple client platforms.
- Designed and implemented a custom **EmailAddress** model with **Entity Framework Core** to enhance user data management and system maintainability.
- Developed a secure file upload system processing over **10,000+ monthly documents**, significantly improving documentation compliance and operational efficiency.
- Built and deployed an AI-driven vehicle damage assessment model using **ML.NET** and **computer vision** techniques, integrated with a **Blazor** interface to enable real-time damage classification and repair cost estimation.
- Collaborated in daily **Agile** stand-ups and used **Azure DevOps** for version control, task tracking, and CI/CD deployment across **5+ cross-functional teams**.

Apple – Specialist | Philadelphia, PA **Jul. 2025 – Present**

- Deliver tailored technology solutions by assessing customer needs, recommending products, and providing technical support, device setup, and issue resolution across the Apple ecosystem.
- Perform troubleshooting and repairs for MacBooks, iPhones, and iPads, maintaining a **100%** success rate on hardware and software resolutions since on-boarding.

Technical Projects

AI-Powered Vehicle Damage Estimator – Python, TensorFlow, FastAPI, Streamlit

- Built a machine learning model using **TensorFlow** to classify vehicle damage severity from images with over **85% accuracy**, trained on a dataset of annotated collision images.
- Created a **FastAPI** service to serve model predictions and developed a user-friendly web interface with **Streamlit** for real-time assessments and repair cost estimates.
- Designed to assist automotive claims adjusters by reducing manual review time and providing preliminary cost estimates within **2 seconds per image**, improving workflow efficiency.

Sneaker Market Intelligence Platform – Golang, MongoDB, TensorFlow, React.js, Plotly

- Engineered a backend using **Golang** and **MongoDB** to manage sneaker metadata and scrape resale market data, achieving automated price updates every **10 minutes** across multiple marketplaces.
- Implemented a **TensorFlow** model achieving **90%+ accuracy** in identifying sneaker models from images, supporting over **100+ unique sneaker releases**.
- Built an interactive **React.js** frontend with **Plotly** charts to visualize price trends, assisting sneaker resellers in identifying arbitrage opportunities and historical value patterns.

Digital Smart Photo Frame (iPad App) – SwiftUI, Vision Framework, CoreMotion

- Designed and implemented a native iPad application in **SwiftUI** to manage and display a curated slideshow from over **20,000+ photos**, optimized for continuous display.
- Integrated Apple's **Vision Framework** to enable facial recognition and event-based filtering, reducing duplicate or low-quality photo display by over **75%**.
- Incorporated **CoreMotion** to automatically activate or sleep the display based on motion detection, reducing unnecessary screen time by an estimated **40%**.