Navid Ali

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Education

University of Florida — Gainesville, FL
Bachelor of Computer Science — *Aug. 2018 – Dec. 2021*

Projects

Command Registry | *C#, .NET Core, MSSQL, Docker, Kubernetes* — May 2023 – Oct. 2023

- Implemented the architecture and execution of two scalable Web APIs, integral to a microservices framework, facilitating efficient management and distribution of platform-specific commands.
- Optimized inter-service communication by implementing gRPC and RabbitMQ, resulting in a 50% reduction in response time through the efficient use of a modular message bus and asynchronous messaging protocols.
- Established a robust RESTful API Gateway to enhance system reliability and accessibility, with a primary focus on elevating external client engagement and facilitating inter-system testing.

Airbnb | *Next.js, React, TypeScript, Vercel* — July 2022 – Nov. 2022

- Spearheaded a high-performance full stack Airbnb web application using Next.js and React, implementing server-side rendering and integrating Cloudinary CDN, resulting in a 50% improvement in page load times and a responsive user experience.
- Elevated user onboarding efficiency through OAuth integration, achieving an average 10-second reduction in login times and facilitating platform engagement.
- Developed and integrated custom search and filter modals using React hooks, which significantly improved property search results and enhanced user experience by minimizing response time.

Roots | *Python, Mask R-CNN, OpenCV, PlantCV* — Dec. 2021 – Feb. 2022

- Engineered a Mask R-CNN-based deep learning solution for precise instance segmentation and analysis of plant roots, automating root property measurements with pixel-level accuracy.
- Enhanced root property analysis through advanced image processing, resulting in 30% greater efficiency compared to manual methods.

School Scheduler | *Python, PyQt5, Rust, SQLite* — June 2021 – Aug. 2021

- Constructed a comprehensive scheduling application using Python and PyQt5, enabling high school administrators to automate the generation of thousands of student schedules in just seconds.
- Utilized Rust to optimize performance-intensive tasks, achieving a 75% reduction in scheduling generation time.

Voter Pass | *Electron, PouchDB, JavaScript* — Aug. 2020 – Oct. 2020

- Devised a streamlined queue system with QR code-based tickets and automated return times, significantly optimizing the voting process flow and achieving a substantial 40% reduction in voter wait times.
- Implemented an offline-first architecture with local data storage and synchronization, enabling seamless system operation in network-disrupted or remote conditions.

Travel Bot | *Python, Flask, Bootstrap, Google Cloud Platform, Maps API* — Dec. 2019 – Feb. 2020

- Developed an automated destination planner, utilizing user preferences to generate optimized travel itineraries based on desired stopping points.
- Dual interaction modes: an AI-powered messaging bot utilizing Google Cloud Machine Learning API for fluid, human-like communication and a Web App with an intuitive UI for straightforward engagement.

Experience

Computer Technician — May 2017 – Aug. 2017
Taz Computer Shop — *Houston, TX*

- Expertly diagnosed and resolved complex software issues, optimizing system performance and reducing downtime by 30%.

Technical Skills

Languages: C#, C++, Java, JavaScript, TypeScript, Python, Rust, SQL, HTML, CSS, MATLAB
Frameworks: React, .NET Core MVC, Node.js, Express, Flask, Next.js, Bootstrap, Jest, Material-UI, FastAPI
Technologies: Docker, Kubernetes, Google Cloud Platform, Postman, VS Code, Visual Studio, Git, Bash, WSL
Databases and Libraries: MongoDB, Microsoft SQL Server, TensorFlow, PyTorch, scikit-learn, OpenCV, jQuery