AMAN WAGHCHOURE

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PROFESSIONAL EXPERIENCE

Wells Fargo   Charlotte, NC
Software Engineer Intern   June 2024 – August 2024
Technologies: AngularJS, Python, Selenium, SQL, AWS S3, Dremio, Flask, .NET, Jmeter, Jira, Jenkins, Swagger, MS Teams, GitHub
- Implemented **10+ functional** and **3+ end-to-end** automation tests using Pyodbc, Dremio REST API, Boto3, and Selenium, reducing testing time from 2 hours to 20 minutes, improving **efficiency by 600%,** and **increasing annual profits by $20,000+.**
- Utilized JMeter to stress test the internal site, handling critical liquidity and risk data and ensuring high performance and reliability.
- Developed **3+ APIs** using .NET/Flask, integrated user inputs for **requests, efficient data transmission, and STMP integration**.
- Actively contributed to Agile practices, participating in **daily standups, sprint planning, and retrospectives** while closely working with PMs, UX/UI designers, and testers.

Scale AI   Remote
AI Software Solutions Developer   Dec 2023 – May 2024
Technologies: JavaScript, Python, TypeScript, React, Vue.js, Node.js, AWS, Bash, Firebase, Slack
- Enhanced AI-driven coding database, tackling diverse and complex software development challenges, which required a thorough understanding of various software languages (React, Next.js, Python, JavaScript, TypeScript, Flask, Django, AWS S3, and Firebase) and developed **50+ high-caliber solutions** for top clients (Google, Amazon, and Microsoft).
- Collaborated within **3 dynamic team environments with over 50 members** to provide constructive feedback, actively contributing insights to refine techniques and solutions, optimizing problem-solving strategies under time constraints, and helping team members **develop over 120+ solutions.**

Lynkway LLC.   Charlotte, NC
Software Engineer   Jan 2022 – Dec 2023
Technologies: TypeScript, React, Python, HTML/CSS, SQL Alchemy, AWS, PostgreSQL, Jira, Jenkins, GitLab
- Engineered and deployed **25+ Flask APIs**, which leveraged ORMs and singletons to connect, query, and efficiently retrieve and present dynamic data from AWS and PostgreSQL.
- Cooperated on creating a comprehensive CI/CD pipeline using **Jenkins and Docker**, automating testing and deployment.
- Integrated secure coding practices such as **OAuth2** and implemented **authentication mechanisms** for APIs using **JSON Web Tokens**.
- Collaborated on designing and improving the front-end web application using React, conducting A/B tests to ensure an intuitive, visually appealing, and reusable design for future implications, **increasing conversion rate by 13% and profits by $3,750 monthly.**
- Created documentation/tests that improved code reliability and **reduced inquiries by 30%,** ensuring high-quality software standards.

PERSONAL/ACADEMIC PROJECTS

Stock Whisperers | *JavaScript, HTML/CSS, Bootstrap, Python, Flask, PostgreSQL, SQLAlchemy, Render*
GitHub: https://github.com/sudo-amancodes/stock-whisperers
- Led a cross-functional team of six using agile methodologies to design and implement a user-centric platform with profile creation, social features, real-time chat, and integrated stock graphs.
- Developed a real-time stock data visualization feature using WebSockets, multithreading, and API calls to update stock candles for 1000+ stocks every 5 seconds, allowing users to view up-to-date stock information.

Dynamic Trading Facilitator | *Python, Rust, Flask, PostgreSQL, Heroku*
- Engineered a dynamic trading tool leveraging real-time options data for precise investment management which integrated a PostgreSQL database for efficient data storage and supported a user base exceeding 100.

Multilingual Spam Detection | *Python, Flask, Kaggle, CountVectorize, MultimodalNB*
GitHub: https://github.com/sudo-amancodes/multilingual-spam-detection
- Implemented real-time detection of spam content across various languages with a scalable and modular architecture.

FilesForAll | *JavaScript, HTML/CSS, Bootstrap, Flask, AJAX, jQuery, youtube_dl, Render, ffmpeg*
Website: https://filesforall.onrender.com/
- A versatile web app for converting and downloading video and image files from the internet.

Real-Time Video Automation System | *Python, Selenium, beautifulsoup4, yt-dlp, ffmpeg, Bash*
GitHub: https://github.com/sudo-amancodes/real-time-video-automation-system
- Scraping tool to download and upload Twitch clips to YouTube using automation, with built-in logging to prevent redundant downloads.

EDUCATION/RESEARCH

University of North Carolina at Charlotte
Bachelor of Science in Computer Science (GPA: 4.0.)   August 2021 – December 2024
Vice President of ACM (Association of Computer Machinery Club)
- Actively involved with **leading, managing, and promoting** one of the University of North Carolina at Charlotte's largest Computer Science clubs, the ACM club, with **over 300 total members**.
- Demonstrated leadership skills by spearheading several club activities that **leveraged my technical expertise to teach members** about the technical interview process through real-world exercises such as complex coding problems, projects, and system design.
Machine Learning Researcher
Technologies: Python, Azure AI Services, OpenAI API, Whisper AI, BERTopic, RE, NumPy, GitLab
- Conducted data preprocessing on large, unstructured datasets, improving model accuracy and performance across various NLP tasks.
- Leveraged Whisper AI for real-time speech-to-text conversion, **reducing transcription time by 90%** for large audio datasets.
- Utilized complex algorithms such as Dynamic Time Warping and IOU to design tests to accurately measure LLM outputs.