Akhilaa Sonduri Panthangi

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Education

University of Southern California   **Aug 2023 – May 2025**
Masters of Science in Computer Science, GPA: 3.5 / 4   *Los Angeles, CA*

SRM University   **Jul 2018 – Sep 2022**
Bachelor of Technology in Computer Science and Engineering, GPA: 9.76 / 10   *Chennai, India*

Technical Skills

Programming: C,C++, Python, HTML/CSS, JavaScript, SQL, Swift
Libraries: NumPy, Pandas, Scikit Learn, Matplotlib, Seaborn, Time Series Analysis, React.js, Flask, Node.js, Bootstrap
Cloud Platforms: Amazon Web Services (AWS), Google Cloud Platform (GCP), Azure
Developer Tools: VS Code, Atom, Git, Github, Jenkins, Docker, Kubernetes, Jupyter Notebook
Coursework: Data Structures and Algorithms, Analysis of Algorithms, DBMS, Operating Systems, Machine Learning for Data Science, Web Technologies
Core competencies: Team Collaboration, Problem Solving, Adaptability, Analytical Skills, Time Management

Experience

WorkUp   **May 2024 – Jul 2024**
Software Developer Intern   *Los Angeles*
* Developed and integrated **5 API endpoints** for Interview Question Templates, enabling custom question creation and sets.
* Implemented Zoom SDKs for video chat functionality and designed the frontend for Interview Templates using React.js.
* Added video playback to interview result cards using HTML components and custom hooks, enhancing user experience.

Accolite Digital   **Aug 2022 – Jul 2023**
Software Developer   *Hyderabad, India*
* **Certified AWS Cloud Practitioner**, Spearheaded a successful project, containerizing a web application, optimizing deployment processes, and reducing deployment time by **20%** through the implementation of CI/CD pipelines.
* Led the adoption of Google Cloud Platform (GCP) as a PaaS solution, enhancing scalability, and achieving a 15% reduction in operational costs.
* Enhanced **AWS** expertise by actively administering **VPCs, Amazon RDS databases, S3 buckets, EC2 instances, and Lightsail** for comprehensive cloud solutions, ensuring data reliability, scalability, and cost-effectiveness.

Accolite Digital   **Jan 2022 – July 2022**
Software Developer Intern   *Hyderabad, India*
* Achieved competency in **Node.js, .NET and React** ensuring adept utilization of these frameworks to craft effective software solutions.
* Strengthened skillfullness in programming languages: **C, C++, JavaScript, and Python.**
* Demonstrated adroitness in Git, optimizing code management, branching, merging, conflict resolution, and Git hooks for streamlined collaboration.

Projects

Real-time Stock Search Web App (Try it here) | *React.js, Express.js, Node.js, Flask, Swift, MongoDB, GCP*
* Independently conceptualized, designed, and developed a stock search application and a Swift iOS app using React.js, Node.js, and MongoDB
* Integrated Finhub API and Polygon API to provide real-time stock data, ensuring users receive up-to-date information, resulting in 75% faster access to stock data compared to manual search methods.
* Hosted the application on Google Cloud Platform (GCP) for 100% uptime and 80% faster load times, while optimizing data management with MongoDB for streamlined user portfolio and watchlist handling.
* Designed and developed separate components for news, insights, and charts, enhancing user experience and providing 60% more comprehensive stock information.

Stock price prediction using LSTM | *Python, RNN, Neural Network, LSTM, Time eries analysis*
* Implemented LSTM for **95%** accurate stock price prediction, utilizing stochastic gradient descent. Model with cross-approval executed with well-founded preparation data.

Crypto Currency Price Prediction using Time Series | *Python, Machine Learning,Time Series,ARIMA*
* Devised a cryptocurrency model predicting Ethereum's daily price changes with **95%** accuracy. Advanced Time Series Analysis in Python enhanced model accuracy.
* **Research Publication**: Cryptocurrency Price Prediction Using ARIMA   (Try it here)