

AKHILAA SONDURI PANTHANGI

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EDUCATION

University of Southern California — Masters of Science in Computer Science

Aug 2023 – May 2025

Coursework: Analysis of Algorithms, Web Technologies, Database Systems, Machine Learning, Natural Language Processing, Information Retrieval

TECHNICAL SKILLS

- **Technologies:** C, C++, Python, JavaScript, TypeScript, HTML/CSS, SQL, Swift.
- **Frameworks:** React.js, Node.js, Next.js, Flask, FastAPI, Angular, Bootstrap, .NET, Express.js .
- **Databases / Tools:** MongoDB, MySQL, PostgreSQL, REST APIs, Git, GitHub, Jenkins, Docker, Kubernetes, Postman, Vercel, AWS, GCP, Azure

EXPERIENCE

HubSpot

Jun 2025 – Sep 2025

Software Engineer

Cambridge, MA

- Engineered **Action Builder** features including **tooltips**, **case-sensitive validation**, **page dropdowns**, **drag-and-drop outputs**, **custom code**, and **enum input panels** using **TypeScript** and **React**, improving **workflow efficiency by 25%**.
- Integrated **listing category types** into **frontend** and **data models**, maintaining consistent state and enabling scalable **workflow automation**.
- Enabled **Chirp API endpoints** connecting **backend services** with **frontend workflows**, supporting **dynamic billing metric integration** and real-time execution.
- Enhanced **gates**, **release scopes**, and **RTL functionality** for **External Action Builder**, reducing **QA defects by 30%** and accelerating release timelines.
- Stabilized internal **Action Builder** and **QA environments** by resolving **visual bugs**, **acceptance test crashes**, and **event handling issues**, improving system reliability.
- Implemented comprehensive **event tracking and telemetry** across workflow components, boosting observability and debugging efficiency.

WorkUp

May 2024 – Jul 2024

Software Developer Intern

Los Angeles, CA

- Constructed an **AI-driven interview customization feature** in **React** and **Node.js**, optimizing **workflow** and increasing **user adoption by 40%**.
- Augmented **interview analysis** by embedding and optimizing **video playback** of candidate responses within reports, improving **decision-making by 60%**.
- Revamped the **AI Copilot web app UI** by migrating it to **React**, enhancing performance, responsiveness, and user engagement by **30%**.
- Pioneered **automated interview template selection**, reducing setup time for recruiters by **50%** and streamlining candidate evaluation.

Accolite Digital

Jan 2022 – Jul 2023

Software Developer / Software Developer Intern

Hyderabad, India

- **Certified AWS Cloud Practitioner**; administered **AWS services (VPCs, RDS, S3, EC2, Lightsail)** and orchestrated **CI/CD pipelines** with containerized applications, reducing **deployment time by 20%** while ensuring **secure, scalable infrastructure**.
- Directed migration to **Google Cloud Platform (GCP)**, improving **scalability**, **fault tolerance**, and cutting **operational costs by 15%**.
- Optimized **Git workflows** and collaborated with cross-functional teams on **Node.js**, **.NET**, **React**, **microservices**, and **REST API integration**, amplifying backend performance and deployment efficiency.
- Spearheaded **monitoring and alerting enhancements** across cloud infrastructure, increasing system reliability and uptime by **25%**.

PROJECTS

Medgaurd - Secure Decentralized EHR Audit System [Try it here](#) | React, Flask, MongoDB, Ethereum

- Engineered a **secure web-based audit logging system** for **EHRs** using **React** and **Flask**, allowing **patients and auditors** to monitor **access logs** with privacy preservation and tamper detection.
- Integrated **Ethereum blockchain** for **immutable logging**, **role-based authentication**, and **encrypted storage**, ensuring data integrity and secure queries.
- Designed an **intuitive UI** displaying **detailed audit entries (time, user ID, action type)**, enhancing **transparency and accountability**.

Real-time Stock Search Web App [Try it here](#) | React, Node.js, MongoDB, SwiftUI, RWD

- Designed a responsive web application and companion iOS app using **React.js**, **Node.js**, **MongoDB Atlas**, **Bootstrap**, and **Swift**, enhancing user engagement through real-time stock data retrieval and portfolio management.
- Integrated **Finnhub API** and **Polygon AI** to provide real-time stock data, profiles, quotes, news, charts, and insights, updating every 5 minutes, resulting in a **75% increase in user satisfaction**.
- Managed user watchlists and portfolios with **MongoDB Atlas**, ensuring data consistency. Simulated stock trading with buy/sell functionality and a virtual wallet, enabling users to effectively track profits and losses.

PUBLICATIONS

Cryptocurrency Price Prediction using ARIMA | Python, Machine Learning, Time Series

- Predicted **Ethereum daily price changes** with **95% accuracy** leveraging **ARIMA** and advanced **time series analysis**.
- Disseminated **research findings** in **IEEE Xplore**, contributing to advancements in **cryptocurrency forecasting**.