Corban Sy

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PROFESSIONAL SUMMARY

Software Engineer with expertise in machine learning, full-stack web development, and scalable architecture. Skilled in Python, C++, Django, and React.js, with experience in finance, retail, and event management. Developed AI-driven applications like a stock price prediction model on AWS and a personalized fashion recommendation system. Led a team in creating a tournament management app, enhancing event workflows with Agile and microservices.

EDUCATION

Bachelor of Science (BS) in Computer Science - May 2024
California State University San Marcos (CSUSM) | San Marcos, CA | GPA: 3.533

Relevant Coursework: Data Structures & Algorithms | Computer Architecture | Cloud Computing | AI | Computer Security | Database Systems | Networking | Software Engineering | Programming Languages

SKILLS

Education Relevant Coursework: Data Structures & Algorithms | Computer Architecture | Cloud Computing | AI | Computer Security | Database Systems | Networking | Software Engineering | Programming Languages

Tools: Terraform, Azure, Google Cloud Platform, Flask, Django, React.js

Languages: C++, Python, CSS, HTML

PROFESSIONAL EXPERIENCE

Customer Service Crew Member   **Kona Ice**   **May 2019-Present**
- Served various food items while ensuring accurate transactions and high customer satisfaction.
- Installed and maintained payment application system, including modifying product listings.
- Maintained equipment by refilling supplies and managing inventory in both the truck and warehouse.

SOFTWARE PROJECTS

Fashion Outfit Recommendation System
Utilized: Python, PyTorch, PostgreSQL, Django, React.js, Pandas, Numpy, OpenCV, OpenAI API
- Developed an interactive web application where users can upload clothing items and build a virtual closet, receiving AI-driven outfit suggestions based on their wardrobe.
- Integrated a chatbot to guide users through the app and provide style tips, enhancing usability.
- Designed with Django and React.js to manage profiles and recommendations seamlessly, while ensuring secure user access.

Stock Price Prediction Using Amazon SageMaker and XGBoost
Utilized: Python, AWS SageMaker, AWS XGBoost, AWS Lambda, Amazon SNS
- Built a predictive tool using Amazon SageMaker to analyze stock market trends and forecast price movements, equipping users with actionable financial insights.
- Deployed on AWS to send automated predictions via email, ensuring users receive timely, data-backed market updates.
- Utilized XGBoost for high-accuracy predictions, providing a reliable resource for investment planning.

Tournament Ladder Management App
Utilized: Python, PostgreSQL, Django, React.js, Agile, Jira, Git, Github, Trello
- Led a team to create a full-stack app for managing volleyball tournaments, automating scheduling, score tracking, and dispute handling to streamline event organization.
- Implemented a microservices architecture to support flexible scaling and secure data handling for tournament data.
- Coordinated team efforts using Agile practices, ensuring timely delivery and optimal performance for end users managing events.