Jason Saini

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EDUCATION

University of Central Florida   Orlando, Florida

Bachelor of Science - Computer Science (Dean's List x6, Bright Futures Scholar)   *August 2020 - **December 2024***

SKILLS SUMMARY

AWS Certifications: Cloud Pract. (CLF-C01), Solutions Architect Assoc. (SAA-C03), Dev. Assoc. (DVA-C02, In-Progress)

Languages/Frameworks: Python, AWS, Java, C/C++, C#, JavaScript, SQL/mySQL, Kotlin, Azure, React

Version Control/Unit Testing: Git/GitHub/GitLab, Azure DevOps, Postman, moto, Gradle, Junit5, Google Test

Data Science/Visualization, AI, Machine Learning: OpenAI, NumPy, Pandas, Keras, TensorFlow, Alteryx, Tableau

EXPERIENCE

Southwest Airlines   Dallas, TX

Software Engineer (Backend/Cloud)   *January 2024 - Current*

- Engineered a solution to convert Kafka health alerts into support tickets & leadership dashboards, achieving a 40% faster issue resolution & improving response efficiency
- Optimized release management, reducing deployment issues by 30% and incident resolution times by 25%
- Enhanced message router service via unit testing (moto), boosting testing coverage by 15%
- Delivered architecture design details (i.e Generative AI, AWS Bedrock) to key stakeholders

Data Engineering Intern (Lean Portfolio Management)   *January 2023 - May 2023*

- Collaborated on enterprise-level Scaled Agile development reporting of over 5,000 employees using Alteryx & Tableau
- Reduced data processing workflow execution time by 75% via query optimization in Alteryx
- Met with executive leadership to collect data analysis & reporting needs

Amazon   Seattle, WA

Cloud Engineer Intern (S3 & Monitoring)   *June 2024 - August 2024*

- Developed custom solution for deployment, monitoring, & maintenance of S3 usage using Python, boto3, & Cloud9
- Integrated CloudWatch & CloudTrail APIs for comprehensive access log management, resulting in a 40% increase in security compliance
- Created & optimized Python scripts for automating routine tasks & troubleshooting Linux instances via SSH, reducing manual intervention time by 30%

Morgan Stanley   Alpharetta, GA

Software Engineer Intern (Public Cloud)   *June 2023 - August 2023*

- Internally deployed Azure-based applications & solutions to over 20,000 engineers & analysts
- Independently developed firewall auditor in Python for internally provisioned Databricks engineering environments, reducing validation time by 50%
- Developed a CLI using OpenAI API that automates code generation from user inputs, increasing code throughput by 20%, w/ features for parsing & integrating internal documentation

Siemens Digital Industries Software   Remote

Software Engineer Intern (Installation Solutions)   *August 2022 - Dec 2023*

- Enhanced user flows & data persistence for 6 million users, achieving 30% quicker installation experience
- Managed 8 GitLab configurations, enhancing deployment efficiency by 25% & minimizing compilation overhead
- Delivered reliable software written in C++ (Qt) & Java, tracking progress in Jira (Scrum)
- Increased overall accessibility & reliability by 40% via 17 new features & bug fixes

Optum   Remote

Software Development Intern (Backend)   *June 2022 - August 2022*

- Created C# API to handle application access approval achieving a 25% reduction in approval time
- Led 4 "Shark Tank" presentations covering Sprint development progress to 200 stakeholders

PROJECTS

- **Student At-Risk Predictor (Ongoing)**: Managing team of 5 to develop a full-stack integration for Canvas (LMS) to reliably & accurate predict students at-risk of failing their classes. Built machine learning model to predict student risk with 99% accuracy using Python & Pandas, integrating it with Canvas LMS. Link

- **CNN Image Classifier**: Leveraged a convolutional neural network (CNN) & deep learning for efficient classification to effectively distinguish between "happy" & "sad" images, performing on data sourced from Google Images. Link

- **VS Clone**: Develop a Python-based code editor, mirroring Visual Studio Code's functionalities & aesthetics, implementing API-powered auto-complete, lexer for Python code, & file manager Link

- **Parallel Job Miner**: Worked on team of 4 to develop web scraper for tech-related job application links. Focused on scraper and endpoint development with parallel processing. . Tech: Python, BeautifulSoup, Microsoft Excel. Link

- **J.P. Morgan Software Engineering Virtual Experience**: Used Python & JPMorgan Chase's open source library (Perspective) to generate a live graph that displays a data feed for traders

Prerequisite Course Progression

Discrete Math for Computer Science (CS 311):

- COT 3100C - Introduction to Discrete Structures - A-
- COT 4210 - Discrete Structures II - A-

Introduction to Programming (CS 312):

- COP 3223C - Introduction to Programming with C - A

Data Structures (CS 314):

- COP 3502C - Computer Science I - A

Algorithms and Complexity (CS 331):

- COP 3503C - Computer Science II - B+

Introduction to Data Mining (CS 363D):

- No formal class for Data Mining at UCF, explored similar curriculum in
- CAP 4611 - Algorithms in Machine Learning - A-

Linear Algebra and Matrix Theory (M 341):

- UTAustinX: Linear Algebra - Foundations to Frontiers (In progress, 15 week program will be completed by start of Fall semester)

Introduction to Probability and Statistics (SDS 321):

- STA 2023 - Statistical Methods I - A
- STA 4163 - Statistical Methods II - A