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*
Supplemental Instruction Leader for Data Structures & Algorithms — *January 2022 - Jun 2022*
- **Impact**: Reinforced student understanding of CompSci theory (data structures, algorithms, space/time complexity)
- **Supplemental Instruction**: Delivered SI Sessions to over 100 students via live programming demos in C

Association for Computing Machinery — Orlando, FL
Vice President — *August 2022 - June 2024*
- **Impact**: Led career workshops on software engineering, project management & technical interviews

EXPERIENCE

Amazon — Seattle, WA
Cloud Engineer Intern (AWS) — *June 2024 - Present*
- **Application Development**: Leveraged Python, boto3, & Cloud9 to automate deployment, monitoring, & maintenance of S3 usage, integrating CloudWatch & CloudTrail APIs to manage access logs, increasing security compliance by 40%.
- **AWS Training**: 12-week intensive training program on AWS cloud technologies, focusing on EC2, S3, & load balancers.

Morgan Stanley — Alpharetta, GA
Software Engineer Intern (Public Cloud) — *June 2023 - August 2023*
- **Cloud Technologies**: Internally deployed Azure-based applications & solutions to over 20,000 engineers & analysts
- **Firewall Auditor Project**: Independently developed firewall auditor in Python for internally provisioned Databricks engineering environments, reducing validation time by 50%
- **Open-AI**: 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

Southwest Airlines — Dallas, TX
Software Engineer Intern (Global Distribution Systems) — *January 2024 - May 2024*
- **Kafka Alert Automation**: Engineered a solution to convert Kafka health alerts into support tickets & leadership dashboards, achieving a 40% faster issue resolution & improving response efficiency.
- **Mock DynamoDB Testing**: Enhanced message router service with a unit test, boosting testing coverage by 15%.
- **AWS Bedrock Presentation**: Delivered detailed overview on Generative AI & AWS Bedrock to key stakeholders.

Technology Analyst Intern (Lean Portfolio Management) — *January 2023 - May 2023*
- **Stakeholder Reporting**: Collaborated on enterprise-level Scaled Agile development reporting of over 5,000 employees using Alteryx & Tableau
- **Data Engineering**: Reduced data processing workflow execution time by 75% via query optimization in Alteryx
- **Requirements Gathering**: Met with executive leadership to collect data analysis & reporting needs.

Siemens Digital Industries Software — Remote
Software Engineer Intern (Installation Solutions) — *August 2022 - Dec 2023*
- **Desktop Development**: Enhanced user flows & data persistence for 6 million users, achieving 30% quicker installation experience
- **CI/CD**: Managed 8 GitLab configurations, enhancing deployment efficiency by 25% & minimizing compilation overhead
- **Agile Delivery**: Delivered reliable software written in C++ (Qt) & Java, tracking progress in Jira (Scrum)
- **User Experience**: Increased overall accessibility & reliability by 40% via 17 new features & bug fixes

Optum — Remote
Software Development Intern (Backend) — *June 2022 - August 2022*
- **API Development**: Created C# API to handle application access approval achieving a 25% reduction in approval time
- **Technical Presentations**: 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. Developed 99% accurate algorithm for risk-prediction using Python & pandas. Tech: Python, pandas, MongoDB, React Link

- **CNN Image Classifier**: Leveraged a convolutional neural network (CNN) & deep learning for efficient classification that effectively distinguishes between "happy" & "sad" images, performing on data sourced from Google Images. Tech: TensorFlow, Keras, OpenCV, Matplotlib 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 (Work in Progress) Tech: Python, Qt5 Link

- **Learning ML Algorithms**: Solved various machine learning problems using exploratory data analysis, linear regression, classification, natural language processing, deep learning & neural networks. Link

SKILLS SUMMARY

Certifications: AWS Certified Cloud Practitioner (CLF-C01), AWS Certified Solutions Architect Associate (SAA-C03)
Languages/Frameworks: Python, AWS, Java, C/C++, C#, JavaScript, TypeScript, SQL/mySQL, Kotlin, Azure, React
Version Control/Unit Testing: Git/GitHub/GitLab, Azure DevOps, Postman, XUnit, Gradle, Junit5, Google Test
Data Science/Visualization, AI, Machine Learning: OpenAI, NumPy, Pandas, Keras, TensorFlow, Alteryx, Tableau