

Jasdeep Singh

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EDUCATION

Western Washington University

Sep 2022 - Mar 2025

Bachelor's, Computer Science

- **Coursework:** Data Structures and Algorithms, Operating Systems, Cloud Computing, Computer Networking, Object Oriented Programming, Intro to Data Science, Linear Optimization, Numerical Computational Analysis, Bioinformatics, Statistics, Calculus, Human Errors in Software Engineering

WORK EXPERIENCE

Haggen

Aug 2023 - Present

Online Shopping Assistant Manager

- Trained new hires in customer service procedures, inventory systems, and multi-departmental coordination to ensure efficient workflow and strong team integration.
- Took initiative on high-volume days to increase department revenue by 33%, improving customer satisfaction and retention.
- Updated team members on current sales forecasts using store analytics and provided data-driven input on product prioritization.

Fisher Investments

Jun 2023 - Sep 2023

Software Engineering Intern

- Designed and implemented Mulesoft APIs enabling clients to manage portfolio restrictions on sectors, companies, and industries, successfully scaling to handle over 1,000 daily client requests in a production environment.
- Collaborated within a Scrum team of 10 members and participated in code reviews, ensuring adherence to software development principles and effective version control through Git.
- Developed DataWeave transformations to convert complex client-order payloads between MuleSoft, Salesforce, and Azure SQL formats, reducing manual reconciliation steps and cutting processing time from hours to minutes.

PROJECTS

Full-Stack Web Application: Covid Memories

Jan 2024 - Dec 2024

- Collaborated with a 4-person team to build a web application using HTML, CSS, JavaScript, Node.js, Express, and MongoDB for curating audio reflections from the COVID-19 pandemic.
- Implemented backend unit and integration tests in Mocha to validate Express API routes and ensure system stability.
- Configured GitHub Actions for continuous integration and automated deployment to Azure App Service.

RNA-seq & GSEA Analysis: Brain Metastasis Study

Sep 2024 - Dec 2024

- Built a Python pipeline for RNA-seq analysis using STAR, HTSeq-count, and MyGene API for gene ID conversion.
- Performed differential expression analysis with pyDESeq2 and ran GSEA using GSEAPy with KEGG 2016 gene sets (1,000 permutations) to identify key signaling pathways.
- Created visualizations (custom bubble plots) and delivered a reproducible GitHub repository and formal report.

AWS CLI Tic-Tac-Toe

Feb 2025 - Mar 2025

- Built a multiplayer Tic-Tac-Toe game using AWS DynamoDB, Lambda, and SES for email-based invitations and notifications.
- Implemented CLI-based game creation, joining, move submission, and game state polling via SQS queues.

SKILLS

- **Programming Languages:** C, Java, Python, C++, R, Racket, Assembly
- **Tools And Frameworks:** Dataweave, SQL, Node.js, Mocha, DESeq2, GSEAPy, AWS
- **Platforms And Version Control:** Jira, Confluence, Salesforce, Mulesoft, GitHub, Android Studios, PyCharm, IntelliJ

LEADERSHIP EXPERIENCE

Microsoft Tech Resiliency

Jan 2022 - Mar 2022

Corporate Liaison

- Participated in weekly virtual discussions with Microsoft engineers and peers nationwide, focusing on professional development, tech resilience, and inclusion.
- Learned the foundational skills needed to contribute to inclusive and effective engineering teams.

South Asian Student Alliance

Sep 2022 - Jun 2024

Executive Board Member

- Managed finances for fundraising and cultural events, ensuring efficient budget allocation and measurable impact for the organization.
- Facilitated campus-wide discussions on indigenous and marginalized groups within the Indian Subcontinent, promoting cultural awareness.