

Sharvita Paithankar

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PROFESSIONAL EXPERIENCE

Hitachi

Software Engineer R&D

Colorado, USA

May 2025 - Present

- Architected and deployed AI-powered data extraction pipeline on GCP leveraging LLMs (OpenAI/Claude) and Prompt Engineering to automate web scraping from 15+ energy market websites, processing transactions with 85% accuracy and reducing manual data entry by 10 hours/week
- Built React-based UIs for trading workflows (bids, settlements, reports) across 3 global energy markets using HTML, CSS, Node.js and a configurable data grid, accelerating time-to-market for new trading views and supporting 15+ live production interfaces
- Implemented C# .NET microservices and RESTful APIs for nMarket Communications (energy trading platform), modernizing legacy systems across 9 electricity markets and reducing cross-market data exchange latency by 5 seconds

Squaretrade

Software Engineer - Full Stack

Remote

August 2022 - January 2024

- Developed 15+ Angular pages for financial dashboard with RESTful API integration documented via Swagger, optimizing database queries and reducing load time from 12 seconds to 2 seconds.
- Engineered a micro-service web application using Java Spring Boot and PostgreSQL, automating data reconciliation workflows for 10-person finance team and reducing monthly report generation from 3 days to 8 hours through optimized SQL queries
- Enhanced code quality through TDD practices using Jasmine and Karma, integrating automated tests into Jenkins CI/CD pipeline and achieving 83% test coverage, reducing production errors
- Resolved 80+ production bugs and UI issues using Git/GitHub for version control and Jira for issue tracking, while conducting code reviews and collaborating with cross-functional teams in Agile sprints to maintain platform availability

Synoptek

Cloud Technology Analyst

Denver, CO, USA

August 2021 - August 2022

- Provisioned cloud infrastructure using Terraform IaC and Docker containerization across AWS (EC2, S3, IAM) and Azure environments, reducing deployment time from 3 hours to 45 minutes for 3 client accounts
- Optimized cloud spending by identifying underutilized resources and rightsizing EC2 instances, eliminating orphaned S3 storage, and decommissioning idle servers—validating cost proposals and technical SOWs to deliver 25% cost reduction and \$30K in annualized client savings across 3 accounts
- Supported 3 cloud migration projects involving Kubernetes cluster configuration, Docker containerized workloads, and data transfer validation, maintaining 99% uptime during cutovers with zero data loss across terabytes of migrated data
- Configured security controls (IAM policies, Security Groups, VPC settings) and monitoring infrastructure (AWS CloudWatch, CloudTrail), remediating 60+ security findings, resolving 180+ support tickets, and maintaining 94% customer satisfaction score

Geico

Software Engineer

Washington, DC, USA

May 2021 - August 2021

- Migrated critical data from Azure to Snowflake, enhancing data accessibility and system performance by 20%.
- Streamlined real-time data streaming with Kafka, ensuring secure and efficient data transfer between platforms.

EDUCATION

University of Colorado - Boulder

Master's, Computer Science

August 2024 - May 2026

University of Colorado - Denver

Bachelor's, Computer Science

PROJECTS & OUTSIDE EXPERIENCE

Visual Grounding

April 2025 - May 2025

- Developed computer vision model using Python, PyTorch, and Faster R-CNN to localize objects in images from natural language queries (e.g., "the red car on the left"), achieving 65.7% accuracy on RefCOCOg benchmark
- [Link to project](#)

CERTIFICATIONS & AWARDS

Certified Scrum Master (2023), Azure 900 Certification (2022), ITIL Foundation 4 (2022), CRLA'S International Tutor Training Program Certification Level II (2020), NCWIT Scholar for Leadership Potential (2017)

SKILLS

- **Programming:** Java, HTML/CSS, Python, C/C++, SQL, Angular, REST APIs, .NET, Gen AI, C#, JavaScript
- **Frameworks & Libraries:** AngularJS, Spring Boot, Apache Kafka, Node.js, ASP.NET, React.js, Pandas
- **Cloud & DevOps:** Microsoft Azure, Docker, Heroku, AWS, Google Cloud Platform, Terraform, Jenkins, Git, JIRA, Confluence, Postman, Swagger
- **Other:** Ansible, Linux/Unix, Agile, SCRUM, Snowflake, Apache Kafka, TDD, CI/CD
- **AI/ML :** Jupyter Notebook, Vertex AI, Generative AI, Tensorflow, Python, Prompt Engineering, RAG, OpenAI API, Pytorch