Siddhanth Darshan Jain Gouder Nagpal

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Education

Portland State University   Portland, OR
Master of Science in Computer Science GPA: 3.74/4.00   *Jan 2024 – June 2025*

- Coursework: Algorithm Analysis and Design, Cloud Computing, Data Engineering, Software Engineering, Unit Testing, Agile Methodology, Internet Protocols, Artificial Intelligence, Machine Learning

Visvesvaraya Technological University   Bengaluru, KA, India
Bachelor of Engineering in Computer Science   *Aug 2019 – June 2023*

Technical Skills

Languages and Scripting: Python, C++, Javascript, Bash
Web Technologies: HTML, CSS, Javascript, React.js, Flask, Django
Operating Systems and Networking: Linux, Windows, Ubuntu, MacOS, Socket Programming, TCP/IP, Multithreading, client-server architecture
Cloud Computing and DevOps: AWS, GCP, CI/CD (GitHub Actions, Jenkins), Terraform, Ansible, Docker, Kubernetes
Databases: MySQL, PostgreSQL, MongoDB
Version Control and Development Tools: Git, GitHub, GitLab, JIRA, Jupyter Notebook, Visual Studio, Pycharm
Other: Software Development Lifecycle, Process improvement, Customer Service, Product Management, Troubleshooting Skills, Communication Skills, Collaboration Skills

Experience

Research Assistant   Jan 2025 – Present
Portland State University   *Portland, OR*

- Currently researching how Artificial Intelligence can enhance personalized recommendations by adapting to user behavior. Focusing on real-world applications in mobile apps, education platforms, and healthcare systems.

Front Desk Agent   May 2024 – Present
University Place Hotel and Conference Center   *Portland, OR*

- Assisted guests with check-ins and service requests while managing basic IT operations such as troubleshooting front desk systems and coordinating with technical support.

Software Intern   Sep 2022 – Jan 2023
Bionic Engineers   *Bengaluru, KA*

- Built a web application using Python, Django, and MySQL, ensuring smooth frontend-backend integration.
- Created a testing framework with PyTest and set up CI/CD pipelines for efficient development.
- Designed RESTful APIs and optimized backend data processing using Python for better performance.
- Gained experience in deploying applications on cloud, focusing on security and high availability.

Projects

Trimet Transit Operations Analysis | *Python, PostgreSQL, GCP, Data Pipelines*   GitHub
Built a real-time data analysis system to help public transportation services improve route planning and reliability.

- Designed a cloud-based data pipeline to handle over 1 million daily transit records using GCP services.
- Used Python and Pub/Sub to fetch and process data in real time, reducing delays by 30%.
- Automated server operations with scheduled tasks, helping lower processing costs by 20%.
- This project helps public transportation agencies improve route planning and service reliability.

E-Commerce DevOps Implementation | *Docker, Kubernetes, Terraform, GitHub Actions, AWS*   GitHub
Deployed a cloud-native microservices-based e-commerce platform using DevOps best practices.

- Containerized application services using Docker and deployed them on AWS EKS via Kubernetes.
- Used Terraform to automate infrastructure setup including VPC, subnets, and Load Balancers.
- Implemented CI/CD pipelines using GitHub Actions and Argo CD for fully automated deployments.
- Exposed frontend securely using Route 53 DNS mapping to custom domain.
- Simulates real-world e-commerce deployment workflows to ensure scalability, security, and automation.

AI-powered Invoice Tracker | *Python, Flask, GCP, Cloud Vision API, Gemini Pro API*   GitHub
Built an intelligent tool to scan and interpret receipt data using Google Cloud AI services.

- Used Cloud Vision OCR and Gemini LLM for 95% accurate extraction and analysis.
- Deployed the app using Docker and Cloud Run to ensure serverless scalability.
- Integrated Google Cloud Storage for reliable receipt data management.
- This system helps users track and organize their expenses by automating receipt processing with AI.