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📍 Singapore

Experience

Software Engineer (Contractor)

Jul 2024 – Present

Autodesk

Singapore

- Architected and shipped a multi-agent AI orchestration system in Python, ingested tasks via Jira and Confluence MCP servers, automated code implementation via Cursor CLI agents, self-healing review cycles through a JSON-configurable agent council, reduced 3-day library update cycles to near-zero planning overhead.
- Led a team of 3 to migrate licensing dialogs from AngularJS to an Autodesk-internal React framework, coordinated with PMs and stakeholders, owned the test plan, eliminated a third-party vendor dependency, and modernized the security posture of core licensing workflows.
- Engineered a robust offline caching mechanism for a JWT-based authorization system, enabling Autodesk products to perform compliance checks without active internet connectivity.

Software Engineer (Platform)

Jul 2021 – Jun 2024

Red Hat

Pune, India

- Designed and deployed automated CI/CD pipelines using Jenkins for cloud-native product certification across AWS, Azure, and GCP, reduced manual testing overhead and increased validation coverage across cloud environments.
- Created a Slack-integrated notification system that provides real-time visibility into test results, improving team communication and accelerating issue resolution.
- Built comprehensive multi-cloud certification testing infrastructure for RHEL OS across AWS, Azure, and GCP, ensuring consistent product quality across diverse cloud environments.

Software Engineer (Machine Learning)

Sept 2019 – Jun 2021

Taiyo AI

Delhi, India

- Developed a predictive stock analysis platform using Python and machine learning frameworks that delivered actionable investment insights from large financial datasets.
- Engineered a distributed web scraping system that collected and processed economic indicators from numerous sources to enable effective supply chain risk assessment.
- Implemented RESTful APIs to deliver real-time commodity market insights, supporting high-volume data requests with robust performance.

Projects

Multi-Agent AI Orchestration System (Internal) | Python, Cursor CLI, Slack API, Jira MCP, Confluence MCP

- Architected an internal multi-agent AI orchestration system in Python that ingests Jira and Confluence tasks via MCP servers, automates code implementation through self-healing Cursor CLI agents, and delivers Slack notifications on completion.

DataWiz | Dash, Django, Web Development

- Created a data science prototype application using Django and Dash that combines data visualization and machine learning components into a unified workflow for rapid prototyping and quick data exploration.

Pull Request Analysis Tool | Grafana, Python, Data Analytics

- Built a Python application that extracts and processes GitHub Pull Request data to generate meaningful development metrics and visualize team performance through Grafana dashboards.

Education

Bachelor of Technology (Information Technology)

Guru Gobind Singh Indraprastha University

Delhi, India

Skills

Programming Languages: Go, Python, C++, TypeScript, JavaScript, SQL, Bash

Libraries & Frameworks: LangChain, Ollama, ReactJS, scikit-learn, pandas, TensorFlow, PyTorch, pytest, Django, Flask, Apache Airflow

Cloud & Infrastructure: Kubernetes, OpenShift, Prometheus, Rancher, OpenStack, Podman, Docker, Jenkins

Database & Tools: Git, GitHub, GitLab, PostgreSQL, MySQL, SQLite, MongoDB, Grafana

Platforms: GNU/Linux, AWS, GCP, IBM Cloud, Terraform, Ansible

Languages: English, German (Conversational/Intermediate)