Amit Panthi

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TECHNICAL SKILLS

Languages: Java (Spring Boot), Golang, Python, SQL (Postgres, SQL Server)
Developer Tools: Git, Docker, AWS S3, AWS Cloudformation, AWS Glue, AWS EventBridge, AWS ECS, Splunk Cloud, VS Code, Visual Studio, IntelliJ IDEA

EXPERIENCE

Software Engineer   Aug 2021 - Present
Morningstar India Private Limited   *Mumbai, India*
- Developed Spring Boot REST API endpoints that fetch and process relevant data, and finally generate a PDF file. This file was stored in an S3 bucket to provide a scalable end-to-end solution
- Implemented caching for several endpoints, which led to a reduction in API response time from ∼**5 minutes to less than 4 seconds**
- Led the design of and developed multiple AWS Glue-based reports. These reports resulted in a **75% reduction** in execution times compared to traditional Spring Batch jobs
- Designed and reviewed numerous technical designs for novel features, including multiple API endpoints and batch jobs, as well as an **FTP polling service**
- Swiftly addressed and resolved production bugs, ensuring continuous system stability
- Led an international team of eight to victory in the 2021 Morningstar Investor Bias Hackathon, heading the development of a Python-based educational game
- Collaborated with over 20 engineers globally, contributing to three distinct teams across two different clients
- Worked in a fast-paced, agile work environment while efficiently delivering various user stories using JIRA

Website A/B Testing Analyst Intern   April 2021 - July 2021
GymCounselor (Now fittlyf)   *Remote*
- Published A/B testing readouts and built Python/Tableau-based dashboards and reports for the same. Conducted two end-to-end website A/B testing experiments using fixed methodology to optimize user experience and conversion rates
- The automated dashboards and reports generated sped up manual processes by ∼**80%**, and the A/B testing helped bring in ∼**30K INR in revenue**
- Held more than fifteen interviews, and mentored three new interns while working on projects

PROJECTS

Hecto - Text editor | *Rust* | Github
- Hecto is a highly customizable, Rust-based text editor inspired by terminal editors like Vim and Emacs
- Includes navigation, search, save, edit, and syntax highlighting, **improving editing speed by up to 25% compared to manual editing**
- Follows a modular-based approach for easy feature and syntax support additions

Monkey Lang Interpreter | *Golang* | Github
- Created "Monkey Lang," a JavaScript-like programming language, using a **test-driven development** approach
- Achieved **90%+ code coverage** with unit tests, ensuring reliability and robustness
- The interpreter supports higher-order functions, closures, and over 10+ built-in data structures
- Implemented iterative translation for tokenizing, parsing, and evaluating input programs, leveraging Golang's garbage collector

ACHIEVEMENTS

Q4 2023 Star of the Quarter: 2024
Monthly SPOT Award for outstanding contribution: 2024, 2022, 2021
Winner of Morningstar Investor Bias Hackathon: 2021

EDUCATION

Mumbai University   Mumbai, India
B.E. Computer Engineering   *2017 – 2021*