Aaditya Verma

SDE-III (Innovation)@Fidelity | GAI Enthusiast

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SUMMARY

Experienced Software Engineer specializing in Generative AI and Large Language Models (LLMs), with a strong background in full-stack development, automation, and data management. Proven track record in driving AI innovation and implementing advanced AI solutions to enhance organizational growth. Adept at leading cross-functional teams and delivering complex projects on time.

WORK EXPERIENCE

Fidelity International   **Aug. 2020 – Present**
Senior Analyst Programmer   *Aug. 2023 – Present*

- Implemented GAI based application into production for RRT Operations team end to end using Terraform, AWS, React stack. Reduced workload by 75% enabling them to serve multiple advisors.
- Implemented first ever chrome based extension FILBrowserGPT to production enabling use of organization GPT solution on web browsers. Potential savings of up to 2000 hours every week.
- Implemented GAI based solution for Client Services team to analyze call transcripts on various Fidelity based frameworks and guidelines. Potential savings of $784k annually.
- Secured first position in the Improve-a-thon internal hackathon event, implementing RRT GPT solution for Operations team within time bound limits. Used internal GAI solution for analyzing and transforming manual notes to timeline based summary.
- Contributed in fixing critical bugs on Inner Source AWS modules.

Analyst Programmer   *Aug. 2022 – July. 2023*

- Responsible for development of FILxGPT an internal GPT solution for Fidelity. Potential savings of 2000+ hours daily for FIL Employees and Developers.
- Implemented GAI based application to Production for Client Services team, enabling them to respond to Client's Secure Messages with the help of GAI. Saving 50% of their time collating and preparing the responses.
- Developed GAI based application for PI Clients, enabling the clients to be able to chat on their portfolio data.
- Implemented Knowledge Graph based solution to MVP for CoSec team, enabling collation of Legal Entity data and efficient querying on top of it using AWS Neptune for Graph Database, Terraform for IaC, Python for the backend and React for UI.
- Implemented and Researched on fine tuning open source LLM models with specific dataset. Tuned Falcon 7B model with Fintech data for comparing offerings across the board and how FIL can improve their own.
- Developed a Speech-to-Image application for showcasing GAI use cases in Long Services Awards event using Whisper and Stable Diffusion models.

Programmer   *Aug. 2021 – July. 2022*

- Implemented first ever Knowledge Graph based application to MVP for retrieving most relevant search results for the clients speaking over IVR on their fund data queries. Utilized AWS Neptune in LPD configuration and Terraform for Iac. Potential savings of over $140k annually.
- Implemented automation for the Fund Data Management team on the Corporate Actions workflow. Utilizing

spaCy to train NER models and extract entity based data from PDF files. Potential savings of $120k annually.
- Achieved first position in Data Games, internal hackathon event, developing a Charts Repository for the Research team saving them 20% time in creating and retrieving various market research charts data.
- Implemented blockchain based rewards application for FIL internal employees using ERC-20 protocol.

Graduate Programmer   *Aug. 2020 – July. 2021*
- Responsible for development and maintenance of FIODE database. Implemented and Updated PL/SQL procedures, improving data loading speeds by 20%.
- Automated data flow using python scripts & Control-M jobs, saving 50% in manual efforts.
- Supported critical implementations for Fund Launches and Data Migration activities.
- Implemented Insights application for Central European marketing team. Collating live news and sentiment data across various platforms like Twitter, Ignites Europe, etc., on Fidelity competitors. Enabling the marketing team to make critical decisions based on the insights.
- Implemented LinkedIN based Insights tool for the HR team, enabling them to visualize the influx and outflux of employees. Potential savings in the form of competitive advantage.

RankWatch Inc.   **May. 2019 – July. 2019**
Software Developer Intern
- Responsible for implementing a Network Scanning tool using Django framework, scanning across 650k ports to check for unauthorized access.
- Implemented reporting framework using MongoDB for auto scanning and storage of reports and alerts.

EDUCATION

The NorthCap University   **July, 2020**
Bachelors in Technology Computer Science   *Gurugram, HR*
- Secured third place in Smart India Hackathon 2019. Developed messaging solution for HUL Goods Delivery pipeline.
- Part of Dean's List for three consecutive years (9.5+CGPA).
- Published Research paper under Elseviers publication identifying Automated approach to India's PDS.

SKILLS

Terraform; AWS; Python; Django; GAI; ReactJS; Jenkins; Git; Github Actions; Knowledge Graph; Blockchain; Solidity; Full Stack Dev; Docker; K8; Snowflake; SQL; PLSQL; MongoDB;