

VIKRAM ABHISHEK SAH

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EDUCATION

Master Of Science in Computer Science
University Of Illinois, Chicago

May 2023
GPA: 3.7/4.0

Bachelor Of Engineering in Electronics and Communications
Dayananda Sagar College of Engineering

2016

SKILLS

- **Frontend:** React.js, Redux, Web3, Bootstrap, Flask, d3.js, Three.js
- **Backend:** Node.js, Python, Java, Spring boot, Maven, Solidity, Go, C#
- **Cloud:** AWS Lambda, SQS, Dynamo, Sagemaker, MS Entra, Azure Functions, Runbooks
- **Others:** SQL Server, Docker, Linux, Cypress, Gradle, Webpack, Mocha, and Chai

PROFESSIONAL EXPERIENCE

AUTODESK INC. – Enterprise Cloud Engineering & Experience

May 2022 – Present

- Responsible for architecting and maintaining highly performant, efficient systems for managing identity experience for all of Autodesk employees, automated provisioning of organization wide entitlements, querying and retrieving identity data, ensuring optimal performance.
- Played a critical role in the design and development of highly scalable, identity data microservices, running on AWS used by 20+ teams across Autodesk. Performed zero trust implementation.
- Developed an Azure automation strategy to identify & filter out inactive accounts on Active Directory, utilizing multiple parameters for identification, and subsequently disabling them, saving dollars by optimizing license usage.
- Developed a proof of concept (POC) for an enhanced Teams connector leveraging Danswer, an open-source AI assistant. Collected meeting transcripts to train a RAG model, enabling efficient querying for responses.

INVEST-ED (Now Zalpha) – Founding Engineer

Jan 2022 – Jan 2023

- Designed and developed the [MVP](#) for a product, aimed at promoting financial literacy for retail investors and helped the founders raise 200k in funding and secure a spot at Create-X, A Georgia Tech accelerator program.
- Built a fully functional real time paper trading system using React and Ruby, that fetches the current ticker prices, allows buy, sell, place limit orders and accepts stripe payments. Created dynamic Charts for visualization of historical stock performance. Built a COMPETE feature to allow users to form a league and compete against their portfolios.
- Led a small team towards end-to-end product development of MVP, performed low-level system design, CI/CD creation, and took multiple full stack features to production with changes across 3 different services.

ERNST AND YOUNG LLP – Associate Consultant

May 2019 – Aug 2021

- Streamlined order change requests by building an Order Management portal end to end using React.js, Node.js & MSSQL resulting in 400% efficiency & 3FTEs worth of cost-saving.
- Implemented a mass upload feature using Node.js to asynchronously process multiple order change requests by uploading a document template, resulting in decreased manual efforts by 1/10th.

PROJECTS

[Web Search Engine \[Python\]](#)

- Crawled through 10k+ pages in the UIC domain using a BFS crawler and built an unweighted directed graph out of it after indexing them locally. Reduced the indexing time by 1/4th multithreading, tested on a 32-host cluster. Built a search engine using Google's Page Rank algorithm and a TF-IDF weighing scheme to fetch relevant pages against a search query.

[Llama 2 Deployment \[AWS Sagemaker, EMR, LangChain, StreamLit, Python\]](#)

- Developed a RAG (Retrieval Augmented Generation) system utilizing PySpark on Amazon EMR and deployed it on an AWS Sagemaker endpoint. Employed Llama2 for text generation and LangChain to send prompts to LLM and leverage chat history to create a feedback loop within the model. Deployed the chat UI using StreamLit.

[Analysis of Surface Adsorption \[HTML, Javascript, D3, ThreeJS\]](#)

- Collaborated with the Dept of Chemistry, UIC to build a visualization dashboard which aids in the analysis of surface adsorption of different adsorbent structures against multiple adsorbates. Used Javascript, d3 and ThreeJS.

[TradeEth – An. Ethereum based crypto exchange \[React.js, Solidity, Web3, Truffle, MetaMask\]](#)

- Created a smart contract to allow swapping tokens in exchange for Ethereum and vice-versa. Deployed and tested on Truffle Blockchain. Performed Test Driven Development of the smart contract using Chai and built an interactive web UI on React.

[Lone Wolf \[Java, Spring boot, React.js, MySQL\]](#)

- Built a travel assistant focused on heightening the solo hiker experience at a national park. Consumed the Google Maps Geolocation and Directions API to provide location tracking and route navigating features on national park trails. Built API endpoints using Java and Spring Boot to serve the user, geolocation, and navigation data as a service.