

Naman Khurpia

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EDUCATION

Master of Science – Computer Science and Engineering

The State University of New York at Buffalo

GPA 3.83 out of 4

Jan 2024

Bachelor of Technology – Computer Science and Engineering

VIT University, Vellore Institute of Technology

GPA 8.49 out of 10

June 2020

SKILLS

Programming Languages – Java, Python, TypeScript, JavaScript.

Backend Frameworks – Spring Boot, Hibernate, Node JS.

Frontend Frameworks – Native Android App Development, Angular 14, React JS.

Cloud technologies – AWS EC2, Elastic Beanstalk, EC2, S3, Lambda.

Tools – Docker, Apache Kafka, Rabbit MQ, Jenkins, SonarQube, Redis, Git, Netflix OSS, Zuul, SQL, MongoDB, CheckMarx, Vault.

TECHNICAL EXPERIENCES

OneDataShare, Research Assistant, Buffalo NY, Cloud Developer

Jan 2023 – May 2023

- Collaborated at Transfer Scheduler, facilitating transfer of terabytes of data from Google Drive, ftp using Kafka and RabbitMQ.
- Infrastructure setup – Implemented PKI secrets engine using Vault, enabling token management with fine grained ACL policies.

TATA Consultancy Services

TCS Digital, Bangalore, India, Cloud Engineer

Aug 2020 – July 2022

- Led the design and development of Western Union's money transfer solution using Spring Java Microservice, collaborating with 10+ teams and re-architecting the WillCallStore (WCSTOX) program's solution to manage transactions from 50+ countries.
- Developed a microservice layer that validates and stores all money order records in postgres and connecting data-stream Kafka, configurations of multiple Kafka topics, devised a common encryption layer to ensure the security of sensitive data.
- Built and trained an NLP model to optimize code conversion from one syntax to another, identifying and resolving ambiguities. Achieved an impressive accuracy of 88% for converting Cobol to Java (Spring) for a codebase exceeding 10 million lines.
- Led a team of 10 to provide efficient troubleshooting capabilities, designed, & built Angular webapp- searching Money records.

TCS Digital, Bangalore, India, Cloud Engineer

Jan 2020 – April 2020

- Collaborated at CMA (Cloud Microservices Amplification) Department to support the development of a large scaled solution for a MNC, incorporating server side load balancing -Netflix OSS, Ribbon and Jenkins pipeline, deployment on AWS.

PROJECTS

[Check GitHub](#)

- **OpenAI API** (2023), *Personal Project* – Designed Maven and Gradle build tools for OpenAI API, enabling asynchronous calling of all endpoints. Implemented multithreading support for enhanced performance and efficiency in API usage.
- **Dall E 2 Client** (2023), *Personal Project* – An open-sourced Android App that allows content creators to generate images using OpenAI's – Dall-E API and post on social media, developed within 2 days following the launch of APIs. [live on playstore](#)
- **Click-Bait Spoiler Detection** (2023), *School of computer science* – Achieved 73% accuracy by utilizing advanced algorithms (RoBERTa, DistillBERT, Sentence Transformers) to classify and detect clickbait spoilers in various text formats. [Report](#)
- **Car Agent reward-based reinforcement learning** project (2023) *School of computer science* – Implemented a graphical grid world with different reward based algorithms – greedy, SARSA, Q-learning using different strategies – stochastic, deterministic.
- **AR-Store** (2023), *School of computer science* – App-visualizing various scientific concepts in AR using Unity. [view here](#)
- **Coneato** (2022), *Personal Project* – A Hyper Casual Multiplayer Machine Learning Game for Android. [live on playstore](#)
- **Paper VIT** (2019), *School of computer science – Fall 2019*, Question paper viewing app (Android) for VIT University, implemented Facebook ads for monetization of service, managed to get more than 2k downloads + 10k traffic. [live on playstore](#)

RESEARCH PAPERS/ EXPERIENCE

- **Lead Author/ Springer Singapore Journal** – 2020 MARCH, Molecular Dynamics using OpenMP+ SIMD. [View paper](#)
- **Lead Author/ IEEE Vizag Bay Section** – 2021 MARCH, Analysis of Machine Lexical using NLP. [View paper](#)

ACTIVITIES & ACHIEVEMENTS

- Mentor at Grace Hopper Conference 2023. 2023
- Administered workshop on Git and GitHub for Master & PhD students, under guidance of [Alina Vereshchaka](#). 2023
- Special Achievement Award by TCS – Employee of week during award Sprint. 2021
- Lead Android Developer and Board of Management at Apple Developers Group – Vellore, India 2020
- 1st Prize at MLH Local – Hackday – invented a human sentiment analysis using classification – App. 2019
- 3rd Prize Winner at App Challenge – tech fest of VIT, Launched an ecommerce app in less than 12 hrs. 2019