

Naman Khurpia

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EDUCATION

University at Buffalo, The State University of New York at Buffalo, MS in Computer Science, GPA 3.83 out of 4. *Feb 2024*

VIT University, Vellore Institute of Technology, Bachelor of Technology in Computer Science, GPA 8.49 out of 10. *June 2020*

Top 5% of the class in Problem Solving and Object-Oriented Programming classes.

Relevant courses – Object oriented programming – c/c++/Java, Database management systems, ML, Web Programming.

SKILLS

Backend Frameworks: Spring Boot, Hibernate, Apache Kafka, Rabbit MQ, Node JS.

Frontend Frameworks: Native Android App, Angular 14, React JS.

Skills - AWS, CloudWatch logs, Elastic Beanstalk, Jenkins, SonarQube, Docker, Redis, Git, Netflix OSS, Zuul, MVC, AGILE, Java, Python, TypeScript, JavaScript, C/C++, SQL, MySQL, MongoDB, Jenkins, Sonarqube, CheckMarx, Vault.

TECHNICAL EXPERIENCES

OneDataShare, Independent Study, Buffalo NY, 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 - PKI secrets engine using Vault, enabling token management with fine-grained ACL policies.

TATA Consultancy Services – TCS Digital, Bangalore, India, System 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.

TATA Consultancy Services, Bangalore, India, Systems Engineer Intern *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.

Freelancer on Upwork, Full Stack Developer *Jan 2018 – Dec 2019*

- Monitored Network data packets on Wireshark for Android 9 - Pie, tested dual acceleration technology. [View profile & reviews](#)

PROJECTS

[Check GitHub](#)

- **Dall E 2 Client** (2023)– An open-sourced Android App that allows content creators to generate images using OpenAI's - Dall-E API and publish their results on social media – developed within 2 days following the launch of APIs. [live on playstore](#)
- **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](#)

LEADERSHIP ACTIVITIES

- School of Computer Science – Buffalo, US, *Speaker* *Nov 2022*
Administered a workshop on Git and GitHub for Master & PhD students, under guidance of [Alina Vereshchaka](#).
- Apple Developers Group – Vellore, India, Lead Android Developer & Events Head [website](#) (2018-2019)

ACHIEVEMENTS

- Special Achievement Award by TCS - Employee of week during award Sprint. 2021
- 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
- 3rd Prize Winner at Hack4Cause - build an VR/AR app, helping dyslexic students understand scientific concepts. 2018