Naman Khurpia

• 100 Winspear Ave, Buffalo, NY, 14214 • (716) 770-9690 • namankhurpia2@gmail.com • LinkedIn • namank.xyz • blog

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EDUCATION

University at Buffalo, The State University of New York at Buffalo, MS in Computer Science.   *Dec* 2023
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, OS, ML, Web Programming.

SKILLS

Technical Expertise: Spring Boot, Hibernate, Apache Kafka, Angular 13, AWS, CloudWatch logs, Elastic Beanstalk, Jenkins, SonarQube, Docker, Redis, Git, Netflix OSS, Zuul, Django, MVC, MVVM, AGILE, Java, Python, TypeScript, JavaScript, C/C++, Swift, HTML, CSS, SQL, PostgreSQL, MySQL, MongoDB, S3.

TECHNICAL EXPERIENCES

TATA Consultancy Services – TCS Digital, Bangalore, India, *System Engineer*   *Aug 2020 - July 2022*
- Developed an NLP model to optimally convert code from one syntax to another, finding ambiguities and resolution, Achieved an accuracy of 88% for Cobol to Java for over 10 million lines of code.
- Invented a script to map and create all different variables, removed multiple duplicated variables in project code.
- Migrated Western Union's money transfer solution from Cobol to Spring Java Microservice, re-designed and designed architecture of WillCallStore (WCSTOX) program's solution by collaborating with 10+ teams, transactions from 50+ countries.
- Developed WCSTOX Program from scratch, validates and stores all money order records in postgres and connecting data-stream via Kafka, managing configurations of multiple Kafka topics, Devised common encryption layer for all user sensitive data.
- Steered team of 10 new developers and resolved task of stitching code piece by piece, reporting to higher management.

TATA Consultancy Services, Bangalore, India, *Systems Engineer Intern*   *Jan 2020 - April 2020*
- Collaborated at CMA (Cloud Microservices Amplification) Department, supported team building a large-scale solution for a global enterprise, with server-side load balancing – Netflix OSS, Spring Boot, Angular 7, MySQL, Ribbon.

Freelancer on Upwork*, Full Stack Developer*   *Jan 2018 – Dec 2019*
- Monitored Network data packets on Wireshark for Android 9 - Pie, dual acceleration technology (Wifi and mobile data), tested multiple devices with it and finding bugs and unsupported apps by proper network packet captures on Wireshark.
- Debugged and wrote testcases for Nougat-dual acceleration technology- Junit, Mockito and Espresso. View profile and reviews

ACADEMIC PROJECTS   Check GitHub
- Car Agent reward-based reinforcement learning project- implemented a graphical grid world with different reward-based algorithms - greedy, SARSA, Q-learning on different environments - stochastic and deterministic.   view here
- Coneato (2022), *Personal Project – Jan 2022* - A Hyper Casual Multiplayer ML 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.   live on playstore
- Easy Ed, *School of computer science – Fall 2018*, App-visualizing various scientific concepts in AR using Unity.   view here

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*   Sep2022
  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)
  Mentored 100+ students about Native Android App Development, Unity 3D and Native iOS App Development.
- Creative Educational Society – Bhopal, India, Core Committee Member   (2016 – Present)
  Managed NGO, opened in 1993 by Khurpias, conducted sessions for children on importance of Education and Technology.

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