KARTIK KANOTRA

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EDUCATION

New York University (NYU), Courant Institute of Mathematical Sciences   Sep 2023 - May 2025
Master of Science in Computer Science **GPA** *3.70/4*   *New York, USA*
Relevant Courses: Predictive Analytics, Operating Systems, Cloud & Machine Learning (ML), Large Language Models (LLMs)

Birla Institute of Technology and Science (BITS), Pilani   Aug 2017 - Jul 2021
*B.E. (Hons) in Electrical and Electronics Engineering (**First Division**)*   *Hyderabad, India*
Relevant Courses: Object-Oriented Programming, Data Structures and Algorithms, Cryptography, Data Mining, Database Systems, Data Science, Artificial Intelligence, Information Retrieval, Parallel Programming, Computer Vision, Distributed Systems, Deep Learning

EXPERIENCE

Liw Iron Works   June 2024 - Aug 2024
Software Developer   *Maryland, USA*
- Built Bliitt, a **multi-vendor** e-commerce platform using **WordPress**, PHP, WooCommerce, and **Dokan**, facilitating efficient vendor onboarding, delivery, and tracking services. Leveraged **AppMySite** to develop and publish companion mobile apps on both the Apple App Store and Google Play Store.
- Developed the Liwironworks e-commerce website using WordPress, **PHP**, and **WooCommerce**, managing the entire process from design to deployment.
- Enhanced **SEO** for both Liwironworks and Bllit.com websites, improving search results by more than **50%** for Liwironworks and **65%** for Bllit.com, significantly **boosting** search visibility, site traffic, and user engagement.

Visa Inc   June 2022 - Jul 2023
Software Developer   *Bangalore, India*
- Led the overhaul of the Digital Configuration Platform with **Angular** and **Spring Boot**, achieving a 30% increase in website conversion rates and driving revenue growth. Enhanced user experiences and streamlined operations through **agile** development, **microservices** architecture, **CI/CD** practices, and **cloud deployment**. [Link]
- Conducted **Angular** and **Cypress** testing for VDP-API Connect, integrating **Kafka** for efficient event-driven communication and **logging**. Achieved a **17%** performance enhancement and increased reliability through rigorous **end-to-end** automated testing.
- Optimized **SQL** and **MongoDB** queries, cutting **data retrieval** times by **70%**, boosting efficiency and decision-making.

Samsung Research And Development (R&D) Institute   June 2021 - Dec 2021
Software Engineer Intern   *Bangalore, India*
- Developed and deployed a Chatbot for **Samsung Finance Plus Application**, leveraging **RASA** opensource and **Spacy** for English; Improved user engagement by **50 %** through personalized recommendations.
- Extended Chatbot functionality for regional Indian languages (Bengali, Hindi, Marathi) using **Natural Language Processing (NLU)** pipelines and by training **FastText** word vectors. Used **Java-8** as backend and **Docker** for containerization.
- Orchestrated **API integration** and applied data analysis techniques, incorporating rigorous **unit testing**, to refine chatbot interactions; Improved operational efficiency and **enhanced customer engagement** for the Samsung Finance Plus App.

PROJECTS

- **E-Commerce Microservice**: Designed and implemented a robust microservice for an e-commerce platform using **Flask**. Streamlined a **CI/CD** pipeline with **GitHub Actions** and **Jenkins**, automating deployment on a **Kubernetes** cluster via **OpenShift**. Created API documentation with **Swagger**, **OpenApi**, and **Flask-RESTX**. Ensured code quality by writing unit tests with **Pytest** and **BDD** tests using **Selenium** and **Cucumber**, promoting a test-driven development (TDD) approach. [Link]

- **CNN Perf Estimation**: Optimized **ResNet-50**, **VGG-16**, and **MobileNetV2** models on **Nvidia GPUs(A100, V100)** using **CUDA** and **PyTorch**, focusing on various batch sizes and layer dimensions. Leveraged theoretical and **Nsight Compute** empirical data to enhance **FLOPS** and memory bandwidth by **23.65%**. Achieved significant improvements in speed and efficiency across models, demonstrating expertise in **deep learning optimization** and **GPU resource management**. [Link]

SKILLS

Languages: C/C++,C# Java, Javascript, Typescript, Python, HTML/CSS, Bash scripting, Golang, Json, swift, Yaml, Scala, PHP, NoSql, XML
Tools: Amazon Web Services, Git, Azure, Postman, Vue.js, Linux, Unix, Analytics, Android/IOS Application Development, Architecture, AWS DynamoDB, Node.js, Cuda, SaaS, PaaS , AWS EC2, Microsoft Office, Postgres, Redis , Next.js, SRE, JUnit, Red Hat OpenShift
 Frameworks: SpringBoot, Selenium, Kubernetes, Statistics, Microservices, Web Application, Kotlin, Grafana, Regression, JVM, Redux, MATLAB/SIMULINK, .Net, REST APIs, Google Cloud Platform (GCP), Jenkins, TensorFlow, Backbone.JS

ACHIEVEMENTS & AWARDS

- **VISA ACHIEVERS:** Awarded for excellent performance by VISA's team and organization leaders - June 2022

- **JPMC Code For Good'21 Hackathon:** Finalist of Code for Good 2́1 hackathon by JPMorgan Chase & Co - June 2021