KARTHIK CHINTAMANI DILEEP

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Self-motivated Computer Science graduate with strong problem-solving, verbal, and written communication skills.
I demonstrate excellent multitasking and time management abilities.

Education

Northeastern University — **September 2022 - May 2024**
Master of Science in Computer Science — *GPA: 4.0*

Dayananda Sagar University — **August 2018 - May 2022**
Bachelor of Science in Computer Science — *GPA: 3.5*

Technical Skills

Languages: Java, Python, C++, JavaScript, Bash / Shell, SQL, HTML, CSS
Technologies/Frameworks: React, Node, Spark, Tensorflow, Keras, Machine Learning, Deep Learning, AI, Django, JQuery, REST API, XML, JSON, JUnit, Selenium
DevOps Tools: Docker, Jenkins, ElasticSearch, Kibana, Continuous Integration/Continuous Deployment, Git
Databases & Cloud: MySQL, PostgreSQL, NoSQL, MongoDB, Redis, ORM, AWS
Software Development: Agile Methodology, Scrum, Jira, TeamCity Collaboration

Experience

Software Engineer — **May 2023 – December 2023**
Addgene — *Boston, Massachusetts*

- Developed a full-stack Django application using ORM for efficient data management handling 5000 daily requests.
- Collaborated across cross-functional teams using version control systems like Git during code reviews for requirement analysis, robust error handling mechanisms and delivered high quality code achieving 100% product goals.
- Integrated Test Driven Development methodologies (TDD) within the Software Development Life Cycle (SDLC).

Research Assistant — **January 2021 - May 2022**
Dayananda Sagar University — *Bangalore, Karnataka*

- Trained and fine-tuned deep learning Convolutional Neural Network models utilizing TensorFlow, Keras on a large dataset of medical imaging data to predict pediatric bone age, lowering prediction errors by 24%.
- Developed an end-to-end machine learning application for pediatric bone age prediction, encompassing data ingestion, preprocessing, model training, deployment, monitoring, and updating pipelines.

Data Engineer — **May 2020 – December 2020**
MARG Innovations — *Sunnyvale, California*

- Built ETL pipeline using Natural Language Processing (NLP) and Computer Vision to extract data from images, load it into PostgreSQL relational database and architected RESTful microservices reducing end-to-end validation time by 30%

Projects

SearchXpert: Advanced Information Retrieval Toolkit | *Distributed Systems, NLP, Spark* CODE — **January 2024**

- Implemented real-time monitoring, logging and troubleshooting using Elasticsearch and Kibana, leveraging Kafka for data ingestion and PySpark for data processing, enabling detection of anomalies.

LearnFlow - Canvas Clone | *ReactJS, node.js, MongoDB, AWS* CODE — **December 2023**

- Spearheaded the development of a full-stack web application utilizing React, TypeScript for front-end and Node.js and MongoDB for back-end infrastructure resulting in a 30% increase in access time to course materials for students.
- Orchestrated the seamless migration of the system to AWS cloud, leveraging services such as EC2, S3, DynamoDB.

Velocity Commerce | *C++, OOPS* CODE — **May 2023**

- Led the creation of a high performance adaptable C++ server architecture by leveraging Object-Oriented Programming (OOP) principles and multithreading on Linux. Designed cache, storage, routing, with a focus on scalability.

Foodie Palace - Restaurant Management Tool | *SQL, Python, Flask, JavaScript* CODE — **May 2023**

- Developed SaaS CRM system for a restaurant and designed complex MySQL relational database with CRUD operations.

Trader360 - Stock Portfolio Management | *Java, MVC, SOLID Principles* CODE — **January 2023**

- Developed an app using MVC, integrating real-time stock data via RESTful APIs, implementing Object-Oriented Design patterns like Factory and Singleton, performing unit testing achieving 90% code coverage for a robust, extensible system.