Karthik Chintamani Dileep

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Education

Northeastern University - Boston, MA

Khoury College of Computer Sciences

Master of Science in Computer Science

Expected Graduation: May 2024

GPA: 4.0/4.0

Coursework: Algorithms, Design Patterns, Cloud Computing (AWS), Web Development, Database Management.

Davananda Sagar University - Bangalore, KA Bachelor of Technology in Computer Science

August 2018 - June 2022

September 2022 - Present

GPA: 8.76/10

Experience

Addgene Inc - Software Engineer Co-op

May 2023 - December 2023

- Leveraged complex ORM queries, MVT architecture strategies to develop and optimize multi-tenant Django backend for internal management software using CI/CD pipelines, serving 1000+ customers.
- Drove agile test-driven development of robust, full-stack SaaS using server-side rendering REST APIs and JavaScript. Authored documentation of over 100 test suites.
- Collaborated with cross-functional teams, product management to build modern, scalable web application.
- Participated in code reviews to strategically prioritize deliverables and ensure to achieve 100% product goals.
- Researched 10+ generative AI, large language models (LLM) to enhance user experience by enabling personalized product recommendations and relevant search results without extensive user searching.

Persistent Systems - Software Engineer Intern

February 2022 - July 2022

- Engineered system to automate 50K document verifications using NLP and big data analytics.
- Programmed core functionalities of enterprise level client-server application utilizing Python, SQL and advanced machine learning (ML) with cutting-edge technology, boosting accuracy to 93% to enhance security protocols.
- Reduced cross-platform deployment time by 40% and improved availability by pioneering transition to microservices architecture using Docker containers and orchestration.

MARG Innovations - Software Engineer Intern

July 2020 - September 2020

- Smart Verification: Deployed and scaled ETL data processing pipeline using Python, Flask microservices, verifying user images with over 90% accuracy for efficient high volume verification.
- App User Insights Dashboard: Developed a web dashboard to analyze over 1000 reviews using Topic Modelling (LDA) and N-gram frequency distributions to identify the dominant opinions among users.

Projects

LearnFlow - Canvas Clone | NodeJS, ReactJS, Redux, MongoDB

September 2023 - December 2023

- Architected full-stack learning management system using React.js for front-end development Node.js and MongoDB on the back-end to enable platform reliability, availability, and scalability for course creation, monitoring with analytics capabilities.
- Leveraged **Redux** to improve dashboard load times by 40%, and enabled real-time analytics that drove student engagement.
- Used **jQuery** and **REST API**s for rapid prototyping and development of UI features without backend dependency.

Trader360 - Stock Portfolio Management | Java, MVC, SOLID Principles

September 2022 - December 2022

- Created a desktop stock portfolio management application utilizing Model View Controller architecture principles and **Java Swing** for an intuitive, interactive GUI.
- Adopted object-oriented design patterns like **Factory**, **Builder**, and **Command** patterns to create a modular, extensible architecture - enabled seamless integration of 4 new features including analytics dashboards and trading.
- Wrote over 170 Unit tests to validate functionality across multiple components, achieving over 90% code coverage for robust end-to-end testing across multiple user workflows.

Technical Skills

Languages: Java, Python, C++, Javascript, SQL, Bash / Shell, HTML, CSS

Frameworks/Libraries: React, Django, Redux, JSON, SOAP, XML, Flask, jQuery, AJAX, Bootstrap, Selenium,

Tensorflow, Git, Linux, Mac OS, Windows Databases: MySQL, MongoDB, NoSQL DevOps tools: AWS, Jenkins, Docker, CI/CD Software Development: Agile, SCRUM, Jira

Publications

"Skeletal Bone Age Determination using Deep Learning" - Published in the International Conference on Ambient Intelligence in Health Care (ICAIHC 2022), 15th-16th April 2022.