

Sujith Kumar Kumaravel

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TECHNICAL SKILLS

Programming:	Python, Java, JavaScript, HTML, CSS, C
Developer Tools:	Git, Google Cloud Platform, VS Code, Postman
Frameworks:	Node.js, React, Express, TensorFlow, PyTorch, Angular 16, Spring Boot
Technologies:	Natural Language Processing, JSP, Servlets
Database:	Microsoft SQL Server, SQLite, MySQL, PostgreSQL, MongoDB
Cloud:	Microsoft Azure, Cloud Application Integration
Competencies:	REST API, Data Warehousing, Data Pre-processing, Data Decryption and Encryption, Data Modelling, Data Archiving, Data Analysis, Model Deployment, Automation Testing, Docker

EXPERIENCE

Full-Stack Developer Intern, Kaardeep Engineering, Chennai, India April 2023 – February 2024

- Implemented and maintained robust full-stack solutions, resulting in a **25%** improvement in overall system efficiency.
- Collaborated with a dynamic team to design and develop innovative features, enhancing the functionality and user experience of **web applications**.
- Utilized **NodeJS, ReactJS, Oracle, Figma, Google API, Zoho API** to create scalable and responsive applications, meeting project requirements and deadlines.

SOFTWARE DEVELOPER INTERN at Exposys Datalabs, Bangalore, India September 2022 – Nov 2022

- Developed a high-performance web application for Attendance Management System using **Spring Boot** and **Angular 7**, incorporating hibernate as a **lightweight ORM tool** to optimize Java application's interaction with the database.
- Utilized **lazy loading** techniques to load data dynamically and **asynchronously**, minimizing initial loading times and improving the user experience by fetching only the necessary information on-demand.
- Implemented **asynchronous** processing techniques, such as task **queues/message queues**, for **time-consuming** operations, freeing up **server resources** and improving the responsiveness of the web application.

ACADEMIC PROJECTS

HTTP Desync Attack: Detection and prevention | Python, Docker, WAF | [Project link](#) February 2023 – May 2023

- Designed and programmed "DESYNCRON," a robust tool in **Python 3.X** for evaluating website vulnerability.
- "DESYNCRON" serves as a proactive assessment tool to detect potential security weaknesses.
- Conducts valid assessments on websites, identifying and addressing **request smuggling** and desynchronization vulnerabilities.
- Delivers actionable insights to fortify **web application security**, ensuring the safeguarding of data integrity and overall resilience

Warzone Game | Java, Design Patterns (MVC, Observer, State), Junit | [Project link](#) September 2023 – Dec 2023

- Developed and implemented complex decision-making algorithms for different game modes, honing skills crucial for predictive modeling in data science.
- Authored and executed comprehensive **JUnit test cases**, ensuring robust and reliable software functionality, a practice parallel to data validation in data science.
- Applied **MVC**, State, Strategy, and Adapter design patterns, demonstrating my proficiency in using architectural patterns to solve complex problems, a valuable skill in data science projects.

Open Tracks | Android Studio, Java, UI design, Kotlin | [Project link](#) Jan 2024 – May 2024

- Developed a UI Toggle Feature: Crafted a user-friendly toggle in **Android Studio** for controlling workout stats visibility, focusing on **intuitive design** and aesthetics.
- Backend Integration for Elevation Gain: Implemented advanced backend programming for dynamic handling of the Elevation Gain statistic in the Aggregated Stats.

SAPDrive | Angular 13, Python3, JavaScript, HTML | [Project Link](#) Jan 2024 – April 2024

- Built in 24 hours during ConUHacks VIII, leading to victory in the SAP Challenge and securing a \$750 cash prize.
- Developed a specialized scheduling algorithm for tire changing shops, managing 10 bays with distinct allocation rules: 5 for walk-ins and 5 for pre-bookings, optimizing revenue generation.
- Utilized **Flask** with **Python** for backend, and **Angular 13** for frontend to create SAPDrive, optimizing scheduling, operations, and revenue generation.
- Collaborated on integrating the **algorithm** seamlessly into SAPDrive's UI for a user-friendly experience.

VOLUNTEER WORK

Director May 2024 – Present

- Graduate Students Association, Concordia University, Montreal
- Collaborated with **Executives** to execute key duties, while proactively identifying and implementing initiatives to enhance the overall well-being and academic experience of Graduate Students Association at Concordia University.

Vice President July 2022 - May 2023

- Crescent Coding Club, Chennai, India
- Organized and Led Weekly Coding Competitions:** Led and orchestrated weekly coding competitions, creating an environment for continuous learning and healthy competition among members, ultimately enhancing their programming acumen.
 - Facilitated Data Structure Mastery Workshops:** Conducted one-day workshops on key data structure topics, empowering undergraduates to deepen their grasp of core computer science principles and enhance technical proficiency.

AWARDS AND RECOGNITION

- Winner of the SAP Sponsored Challenge at ConUHacks VIII:**
- Secured victory at the **ConUHacks hackathon**, winning the **SAP Challenge**, and earning a **\$750 cash prize**. Led a team to develop an optimized scheduling algorithm, demonstrating innovation and expertise in tech solution.

EDUCATION

Master of Applied Computer Science	September 2023 – April 2025 (Expected)
Concordia University	Montreal, Canada
Bachelor of Engineering – Computer Science Engineering	July 2019 – May 2023
B.S. Abdur Rahman Crescent University	Chennai, India