

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, Machine Learning, Deep Learning, 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.
- Conducted comprehensive testing, identifying and resolving software issues promptly, ensuring a high level of reliability.
- Utilized NodeJS, ReactJS, Oracle, Figma, Google API, Zoho API to create scalable and responsive applications, meeting project requirements and deadlines.

DATA SCIENCE INTERN at Exposys Datalabs, Bangalore, India September 2022 – Nov 2022

- Analyzed a dataset of 50 startup companies, employing advanced Python and libraries to predict profit with a precision rate.
- Implemented Random Forest and Master of Models techniques, achieving an impressive accuracy of **94%** on test data.
- Identified and addressed outliers within the dataset, significantly enhancing data quality for robust analysis.
- Gained proficiency in diverse data analysis tools during the internship, expanding skills in real-world data science applications.
- Crafted compelling data visualizations strategically to enhance comprehension and effectively present research findings.
- Documented the entire modeling process meticulously, ensuring clear interpretation and reproducibility of results.
- Actively participated in regular meetings and discussions with mentors, deepening understanding of the existing system and problem domain. The mentorship provided valuable insights and practical experience in the field of data science.

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.
- Expertly managed and manipulated large datasets through algorithms for game state management and Save/Load features, showcasing my data handling abilities.
- 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.
- Ensured Data Management and Integration: Focused on robust **data management** to ensure the **Elevation Gain** metric accurately reflects the toggle's state.
- Data Synchronization: Worked on aligning **UI** elements with backend processes for **seamless user interaction**.
- Extensive Testing: Conducted thorough testing to ensure **optimal functionality** and smooth integration of new features, avoiding performance issues.

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.
- Implemented advanced features to efficiently allocate resources, reduce wait times, and maximize customer throughput for increased revenue.
- Collaborated on integrating the **algorithm** seamlessly into SAPDrive's UI for a user-friendly experience.
- Conducted rigorous testing to ensure reliability, delivering a revenue-focused solution for tire changing shops.

Volunteer Work / Extra-curricular Activities

Director May 2024 – Present

Graduate Students Association, Montreal, Quebec

- Leveraged a strong understanding and practical experience in data acquisition, preparation, and visualization tools, with a focus on Power BI.
- Developed Power BI dashboards, reports, and stories utilizing university association metrics, KPIs, and KRIs, providing the higher management team with insights into trends in areas such as admissions, surveys, and grades.
- Applied expertise in Power Query to extract and transform data, addressing various business needs. Developed Power BI reports

to generate comprehensive insights on payrolls, manpower, admissions, and class strength, actively participating in team meetings to align reporting with business requirements.

Vice President	July 2022 - May 2023
Crescent Coding Club, Chennai, India	
<ul style="list-style-type: none">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
<ul style="list-style-type: none">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

Things that are highlighted in green are need to be modified according to my role.

Things highlightes in blue is copied from others.

Things highlighted in red are barely important and can be removed.