

SURJITH SENTHIL KUMAR

Boston, Massachusetts | (857) 701-9018 | surjithsenthil@gmail.com | [linkedin.com/in/surjith](https://www.linkedin.com/in/surjith) | github.com/surjith1610

EDUCATION

Northeastern University

Master of Science in Software Engineering Systems

Boston, Massachusetts, USA

September 2023 - May 2025

Relevant Courses: Program Structures and Algorithms, Object Oriented Design, Data Science Engineering Methods and Tools, Design Patterns, Network Structures and Cloud Computing, Web Design and User Experience Engineering

Anna University

Bachelor of Engineering in Computer Science

Tamil Nadu, India

July 2019 - May 2023

Relevant Courses: Data Structures and Algorithms, Database Management Systems, Object Oriented Programming, Digital System Design, Software Engineering, Cloud Computing and its Applications, Web Development and Human Computer Interaction

EXPERIENCE

Hexlet Private Limited

Software Developer Intern

Remote

May 2024 - August 2024

- Developed a full-stack e-commerce application utilizing flutter-flow ensuring responsiveness across mobile, tablets and desktop devices
- Integrated OTP based user authentication and JWT authorization for secure login and session management
- Designed and implemented custom UI components enhancing user experience and maintain interface consistency
- Optimized application's performance, reducing load times by efficient query optimization and caching for faster data retrieval

Countrify.app

Software Engineer

Bengaluru, India

December 2022 - August 2023

- Implemented Domain-Driven Design, Test Driven Design approaches for building a B2B e-commerce platform, and applied solid principles and clean architecture to make it more scalable and adaptable to evolving business requirements
- Developed RESTful APIs using Python/Flask, with MySQL backend for efficient data management
- Achieved high code coverage and reliability through rigorous testing with Pytest
- Orchestrated seamless deployment in AWS EC2, utilizing Lambda functions and SQS for asynchronous communication between various cloud components and services

Mitacs Globalink Research Intern (Teach Digital Lab)

Full-Stack Research Developer

Waterloo, Canada

July 2022 - October 2022

- Developed a full-stack web application for the research lab to manage the ongoing research projects, track current lab members and to streamline all the internal operations within the app
- Utilized React.js for frontend, MongoDB and Django to implement the RESTful APIs ensuring scalability, flexibility and maintainability
- Integrated authentication and role-based access control to ensure secure management of confidential research data
- Incorporated CI/CD pipelines to maintain code quality, and efficient deployment ensuring easy and reliable updates

SKILLS

Languages and Frameworks: Python, Java, JavaScript, TypeScript, Express, Flask, and Django

Database: MySQL, SQLite, MongoDB, Firebase and Oracle

Developer Tools: Git, GitHub, Postman, Bruno, VS Code, XCode, IntelliJ Idea, Jupyter Notebook, Google Colab and Metabase

AWS: EC2, S3, SQS, CloudWatch, AWS RDS, AWS LAMBDA

Web Technologies: HTML, CSS, Node.js, React.js, Flutterflow

ACADEMIC PROJECTS

ConfideConnect | React.js, TypeScript, MongoDB, Node.js, Express | ([LINK](#))

- ConfideConnect is a full-stack web application that enables users seeking free healthcare to get connected with health professionals and NGO's
- Implemented RESTful APIs for all the entities using Express.js and MongoDB, with JWT-based API authentication based on the role, internationalization support using i18next
- Integrated Leaflet and Open-Cage for maps, AccuWeather for weather, Stripe payment portal for donations, Socket.IO for chat, Lottie for animations, and Nodemailer for email notifications, enhancing user interaction and functionality

EduPulse | HTML, CSS, React.js, JavaScript, Firebase | ([LINK](#))

- EduPulse is a web application that helps to manage and organize student data and their academic records efficiently
- Used Firebase for data storage and real-time synchronization for the app
- Enabled role-based access control for secure sign-in and administration, ensuring appropriate permissions for different user roles

ACHIEVEMENTS

- MITACS Globalink Research Intern 2022 (Fully Funded Summer Internship in Canada for 12 Weeks) • July 2022 – September 2022
- Member of Board Council - IEI (Institute of Engineers, India) Students' Chapter • February 2022 - February 2023
- Executive Secretary – Computer Society of India, BIT Chapter • July 2021 - March 2023
- Hands-on Experience with Google Cloud Platform through 200 Qwiklabs sessions and Completed Architecting with Google Cloud Compute Engine Specialization on Coursera