



# Sibi Sambasivam

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## PROFILE

Recent Master's graduate in Computer Science with a strong passion for cutting-edge technology and software development. Eager to leverage a solid academic foundation and hands-on experience in coding and problem-solving to contribute effectively in a dynamic team environment. Seeking opportunities to apply my skills and enthusiasm in a challenging role where I can grow and make a significant impact.

## SKILLS

Programming: Python, MySQL, HTML, CSS, Bootstrap, JavaScript, PostgreSQL, Node.js, Express.js and React.

Tools and Technologies: Overleaf, GitHub, Trello, Slack, Rest APIs, Postman, WordPress, IntelliJ IDEA, Sublime Text, and Visual Studio Code.

Graphic Design: Adobe Photoshop, Illustrator, and Premiere Pro.

Methodologies: Microservices

## EDUCATION

### M.Sc. International Software Systems Science

*Otto-Friedrich Universität Bamberg*

10/2019 – 03/2024  
Bamberg, Germany

Main Subjects: Service-Oriented Architecture and Web Services, Distributed Systems Architecture and Middleware, Advanced Data Management and Machine Learning,

### Bachelor Of Technology in Computer Science and Engineering

*Vellore Institute of Technology*

08/2014 – 07/2018  
Vellore, India

Main Subjects: Software Project Management, Software Engineering, Internet and Web Programming, Graphics and Multimedia, Database Systems and Agent Based Intelligent Systems

## PROFESSIONAL EXPERIENCE

### Software Engineer Intern

*iNoble*

09/2024 – Present  
Coimbatore, India

- Developed a robust Excel VBA logging system to track sheet activities, including cell changes, sheet creation/deletion, and backups, with real-time updates, cumulative change tracking, and automated data preservation for enhanced functionality and reporting.
- Developed a full-stack Employee Login system using Angular (with the SAKAI template) for the frontend, Node.js for API development, and MySQL for data management, implementing secure authentication, user registration, password reset, and profile management with JWT-based tokenization and bcrypt for password hashing.
- Extended the Employee Login system to include full CRUD functionality, integrating Angular components and services for managing employee data, enabling secure creation, retrieval, updates, and deletion (CRUD) operations with real-time updates and structured department management, backed by Node.js APIs and MySQL database.

- Documented functional requirements for a Training Academy Management System, detailing features like student registration, fee management, class scheduling, internship tracking, and reporting dashboards for seamless user experience across student, trainer, and admin modules.
- Researched and documented a comprehensive solution for connecting a weighing scale to a computer, involving hardware communication protocols (RS-232, USB, Bluetooth, Ethernet), backend data processing using Java, and database storage in MySQL. The solution included parsing scale data, integrating it with a backend system (Spring Boot), and implementing a frontend for real-time data display.

#### **Graphic Designer - Intern**

*Growth Hackers Digital*

10/2018 – 01/2019  
Bengaluru, India

- Optimized images and enhanced engagement for Zapyle's Mega Black Friday Sale Facebook Ads, resulting in a 40% increase in click-through rates.
- Designed custom icons and graphics for Positka's website and marketing materials to visually communicate the company's services effectively.
- Improved visual appeal of location photos for PuraStays' digital marketing across 5 locations.
- Conducted thorough research on YouTube channels and artists for StarShow, maintaining a detailed database of key metrics and contact information.
- Created digital ads in 10 different sizes for The Crypto University to promote their courses.
- Utilized Adobe Photoshop and Illustrator to design an aesthetically pleasing homepage for Teclov, enhancing user experience.
- Produced 5 Google Ads for Capital Quotient, highlighting the availability of their free financial planning service.
- Assisted the Director of Strategy by conducting research and maintaining a comprehensive database of potential clients.
- Generated graphics and illustrations for 18 ad campaigns for Hush app using Adobe Photoshop and Illustrator.
- Developed digital ads for Vahan's 11 ad campaigns, showcasing job opportunities for delivery executives.
- Edited a promotional video for Universal Robots using Adobe Premiere.
- Conceptualized digital ads in 9 different sizes for VIHA's ad campaigns targeting healthcare professionals.
- Employed Adobe Photoshop and Illustrator to craft 2 visually engaging Google ads for Goalwise, promoting financial planning opportunities.

*Softwares and Tools : Adobe Photoshop, Adobe Illustrator, Adobe Premiere Pro, Google Sheets and Trello.*

#### **Graphic Designer - Intern**

*PT.Multicom Persada International*

12/2016 – 01/2017  
Jakarta, Indonesia

- Successfully executed an internship, conceptualizing and creating multiple marketing brochures.
- Utilized Adobe Photoshop and Illustrator to develop visually compelling and impactful marketing collateral.

*Softwares and Tools : Adobe Photoshop and Adobe Illustrator.*

## **ACADEMIC EXPERIENCE**

#### **Thesis - Hierarchical Edge Computing: Applications, Challenges, and Opportunities**

04/2022 – 12/2022

*Otto-Friedrich-Universität Bamberg*

- Conducted a comprehensive literature review on Hierarchical Edge Computing (HEC), identifying key benefits such as low latency and efficient computational offloading for IoT applications.
- Analyzed the cost and adoption barriers for HEC, noting that high edge server costs and lack of standardized frameworks limit wider adoption compared to traditional cloud computing.
- Investigated application-specific HEC implementations, observing that small-scale IoT applications benefit from unique, custom algorithms tailored to individual research needs.
- Examined the potential of HEC in video surveillance, highlighting advantages in GPU energy preservation, reduced latency, and optimized response timing.
- Explored HEC's ability to reduce network load, improve QoE, and decrease energy consumption by localizing processing tasks and minimizing remote data transfers.

- Evaluated the current limitations and future opportunities for HEC standardization, emphasizing the need for global collaboration to enhance HEC research and commercial scalability.

*Software and Tools : Google Scholar, IEEE Xplore, ACM Digital Library, Springer Link, Overleaf and LaTeX*

### **Masters Project - Automate your software release process CI/CD on Premise**

04/2021 – 09/2021

*Otto-Friedrich-Universität Bamberg*

- Secured and Managed Jenkins credentials for sensitive services like PostgreSQL, using encrypted storage and controlled access to ensure secure integration with CI/CD pipelines.
- Configured and Bound PostgreSQL credentials in Jenkins using docker-compose.yml and application.properties for seamless environment integration, supporting containerized database setups in Docker.

*Software and Tools : Groovy, Jenkins, Google Scholar, IEEE Xplore, Overleaf and LaTeX*

### **Seminar Paper - Portability regarding PaaS**

04/2021 – 09/2021

*Otto-Friedrich-Universität Bamberg*

- Analyzed portability issues across multiple cloud providers, identifying key challenges in cross-platform compatibility and vendor-specific dependencies.
- Reviewed and categorized existing solutions into two main approaches—API standardization and abstraction layers—based on effectiveness and feasibility in current cloud environments.
- Evaluated the practicality of API standardization for enhancing application portability, noting limitations due to slow adoption across providers.
- Recommended the use of an abstraction layer as a more immediate solution, enabling a middle layer for translation between diverse cloud providers.
- Identified gaps in research on abstraction layer solutions, highlighting the need for further testing and case studies to validate effectiveness across a wider range of cloud platforms.

*Software and Tools : Google Scholar, IEEE Xplore, Overleaf and LaTeX*

## **PERSONAL PROJECTS**

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### **Web Scraping with Beautiful Soup**

2024

- Utilized requests and BeautifulSoup libraries to scrape and parse HTML content from the first two pages of "Hacker News." Extracted titles, links, and vote counts of news articles, filtered out articles with fewer than 100 votes, and displayed the top articles sorted by vote count.

*Software and Tools : Python, BeautifulSoup.*

### **Robofriends**

2023

- Developed a highly responsive application using ReactJS to retrieve and display data from an API. Implemented interactive searching features, ensuring a smooth and efficient user experience for exploring and interacting with a diverse array of robots.

*Software and Tools : HTML, CSS, Javascript, ReactJS and Robohash API.*

### **Background Generator**

2023

- Harnessed JavaScript to develop an interactive project providing real-time updates of gradient backgrounds across web browsers, ensuring a seamless and visually stunning user experience.

*Software and Tools : HTML, CSS and JavaScript.*

## **SOFT SKILLS**

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Adaptability, Communication, Interpersonal, Team Collaboration, Creativity, Time Management.

## **LANGUAGES**

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English



Tamil

