

# SINDHURA SHIVAPRASAD

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## PROFESSIONAL EXPERIENCE

### Student Assistant

#### Fraunhofer-Institut für Offene Kommunikationssysteme FOKUS

05/2024 - Present Berlin, Germany

- Developed the frontend for an application using Next.js, integrating backend knowledge graphs to generate handover action predictions.
- Contributed to the development of an XApp for cellular handover, focusing on improving network performance between cells.

### Associate Software Engineer

#### Rakuten India Enterprise Pvt Ltd

12/2022 - 06/2023 Bengaluru, INDIA

- Promoted from Technical Intern to Associate Software Engineer, demonstrating skill growth and leadership in delivering a secure web app using ReactJS, Django, and PostgreSQL over 9 agile sprints.
- Spearheaded the development of a Role-Based Web App (Python, Django, MySQL) to streamline user roles, enhance efficiency with hierarchical transfers, and implement robust security measures.
- Led the implementation of a document management platform with a multi-level review system, optimized media handling, and coordinated cross-disciplinary research, contributing to a successful migration from Ruby to Python.

### Technical Intern

#### Rakuten India Enterprise Pvt Ltd

03/2022 - 11/2022 Bengaluru, India

- Contributed to 3 major projects using agile methodology, including the design and development of an HR Management Tool (Python, Django, MySQL, Bootstrap) to streamline workforce management and optimize HR processes.
- Developed an Employee Feedback Platform (Python, Flask, MySQL, Plotly, Dash, Bootstrap) to enable HRs to create templates, manage surveys, and visualize data for improved collaboration.
- Created a dynamic website for an internal brand event using Bootstrap, delivering a seamless online experience with a focus on creativity and functionality.

### Intern

#### Acranton Technologies

04/2021 - 06/2021 Davangere, India

- Explored major Python libraries such as OpenCV, NumPy, Pandas, Seaborn
- Mainly worked on Django Framework

## EDUCATION

### Master's in Web Engineering

#### Technical University of Chemnitz (currently)

10/2023 - Present Chemnitz, Germany

- Currently working on my thesis "Knowledge Graphs and AI-driven Chatbots"

### Bachelor of Engineering, Information Science

#### Bapuji Institute of Engineering and Technology

08/2018 - 07/2022 Davangere, India

## SKILLS

ReactJS	TypeScript	Next.js	TailwindCSS	JavaScript	Bootstrap
NodeJS	Django	Flask	Python	C	
MySQL	MongoDB	PostgreSQL	Convex		
Docker	Git	Jira	Postman	Confluence	

## PROJECTS

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AI-Assisted Cybersecurity Chatbot (Masters)

Developed an AI-assisted cybersecurity chatbot application leveraging Bun, Node.js, TypeScript, and Tailwind CSS, integrating OpenAI's API for intelligent interaction. Incorporated ZAP for dynamic scanning and SonarQube for static scanning to detect vulnerabilities, ensuring secure code quality. The application stores chat data in Convex DB and uses NIST for real-time CVE updates, offering features like proactive hardening, automated security checks, and human-in-the-loop functionality for compliance, vulnerability monitoring, and report generation. Secured 2nd Rank in the competition.

<https://gitlab.hrz.tu-chemnitz.de/vsr/edu/planspiel/ws2425/group12-denkminds>
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denkMinds Website

The website for denkMinds showcases the company's mission, team, and key features of the application they provide. It also includes a milestones section and blog posts that narrate the journey of the company. (TailwindCSS, Next.js)

<https://denkminds.vercel.app/>
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Compass4Chemnitz (Masters)

Developed "Compass4Chemnitz", a location-based application using Python Django and React.js, allowing users to find nearby kindergarten, schools and universities based on their preferences. Integrated a map display to show all educational institutions in the user's area and enabled users to favorite or remove locations. The database is updated weekly via a cron job, ensuring accurate and real-time data for users.

<https://github.com/Sindhura492/Compass4Chemnitz>
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Breast Cancer Detection Using Machine Learning Techniques (Bachelors)

Developed a cancer detection system using real-time datasets, employing Python Django and key libraries (OpenCV, NumPy, Pandas). Enabled real-time identification and classification of cancer types (Benign or Malignant)
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Hospital Staff Management Portal (Bachelors)

Developed a Hospital Management System with Python, addressing staff portal, record maintenance, positions, and leave management for streamlined hospital operations (Python Django, Bootstrap)

## CERTIFICATIONS

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Cisco Certification in "Data Analysis"
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A six-week online training on "Python for Data Science" from Internshala.
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Online "Python Bootcamp" from Udemy.
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"Python Programming Fundamentals" from Decibels Lab Pvt Ltd.

## RESEARCH


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Empirical Research on "GenAI in Collaborative Pair Programming"
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Research on "Braille Kit for Visually Impaired" and "Image Steganography"
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Been a part of the New Age Innovation Center and worked on a project on "Hydroponics using IOT"

## KEY ACHIEVEMENTS

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State-Level technical paper presentation on "Brain Controlled Cars using AI"
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State-Level Bachelor Project Presentation titled "Breast Cancer Detection Using Machine Learning Techniques" at KSCST(The Karnataka State Council of Science and Technology)

## LANGUAGES

German	A2	English	C2	Hindi	Proficient
Kannada	Native				