

VASUNDHARA RAVIKUMAR

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PROJECTS

Student and Alumni Network - Thesis Project (In progress) | React Native, TypeScript, Prisma Sep 2025 — Present

- **Designed** functional and technical specifications for an **AI networking platform**, aimed at achieving a **35% increase** in user engagement and **40% reduction** in profile-match time by implementing smart profile-matching algorithms and integrating academic support tools.
- Building a **unified data flow** for recommendation engines designed to deliver lower latency and support scalable throughput for **5,000+ users**.
- Creating scope documentation to **minimize scope changes** and **streamline development** across future project phases.

Timely - Productivity App (Frontend in progress) | React, TypeScript, Prisma ORM May 2025 — Present

- Implemented Timely, a **React-based** productivity app (Pomodoro timer & task manager), achieving a **30% increase** in average session duration and a **20% higher task completion** rate by delivering a **responsive UI** and optimized state management.
- Engaged in agile team ceremonies, contributing to the grooming of user stories and ensuring clarity and testability of work items.
- **Implemented and maintained database solutions** using **Prisma ORM**, ensuring data integrity and efficient data retrieval for the application.

Pets Adoption Website (Frontend in progress) | Sveltekit, TypeScript Feb 2025 — Present

- Developed a fully functional Pet Adoption web app with SvelteKit and TypeScript, reducing **feature rollout time** by ~35% and **improving maintainability** and **code reuse** via a component-driven, modular architecture.
- Designed separate Pet, User, Puppy, and Kitten model classes, improving **maintainability** and **reducing** defect rate by ~30% while accelerating feature development by ~25% through application of SOLID OOP principles.
- Applied AI tools for debugging and enhancing the functionality of the application, ensuring a seamless user experience.
- **Participated in code reviews** to improve development processes and ensure adherence to best practices in backend development.

LEADERSHIP EXPERIENCE

Core Team Member Nov 2025 — Present

MIK - HUB

- Enhanced **student-industry engagement** as measured by a **35% increase** in event attendance and new industry contacts, by securing guest speakers from leading software engineering and IT firms.
- Developed the **official MIK-Hub** website, increasing site visits by **35%** and member inquiries by **25%** by designing **dedicated mission, gallery, projects, and team sections** to **elevate** the club's digital presence.

SKILLS

Frontend: React, React Native, TypeScript, HTML5, CSS

Backend: Node.js, Prisma, NestJS

Database: MongoDB, Google Firestore, PostgreSQL, MySQL, Oracle

DevOps/Tools: Docker, Git, REST APIs, AI Tools

Other: System Design, UI/UX wireframing, Agile Methodologies

EDUCATION

University of Pécs, Hungary, Pécs, Hungary

Sep 2023 — Jan 2027

B.Sc in Computer Science Engineering