

Tharan Bala

Milwaukee, WI | tharanbala33@gmail.com | <https://www.linkedin.com/in/tharan-bala/>

TECHNICAL SKILLS

Languages: HTML5, CSS, JavaScript, Typescript, SQL, MySQL, PostgreSQL, Python, C#,
Framework/Tools: Python (Django, Flask), RESTful API, Node.js, Next.js, React.js, Celery, Docker, GitHub
Cloud: Amazon Web Services, Vercel, Microsoft Azure

PROFESSIONAL EXPERIENCE

eCueity Inc

Software Developer

Kingston, NY
Sep 2024 - Present

- Maintained automation workflows for email and notification systems using Celery, improving client communication efficiency
- Fixed critical software bugs in Django and JavaScript, including resolving two major authentication issues affecting key clients
- Worked with Docker for containerization to streamline deployment processes and improve system scalability

Headstarter

Software Engineering Fellow

Long Island City, NY
Jul 2024 - Sep 2024

- Built and deployed 5 AI projects in 5 weeks using Node.js, Next.js, Firebase, Clerk, and Vercel, following agile methodologies with weekly sprints
- Collaborated with industry mentors from Google, Y Combinator, Stanford, and Amazon, integrating their insights into project development strategies
- Refined full-stack engineering skills by implementing authentication, database management, and cloud deployment solutions, ensuring secure, efficient, and high-performance applications

Seminaut Inc

Full Stack Web Developer Intern

San Marcos, TX
Jun 2023 - Aug 2023

- Utilized Flask framework, React.js and Typescript to develop scalable and reusable models for the company's website
- Optimized back-end performance by leveraging RESTful APIs, resulting in 30% improvement
- Engaged in teamwork with fellow interns and maintained code synchronization through Git version control.

Payoda Technologies Pvt Ltd

Full Stack Software Developer

Coimbatore, India
May 2021 - Feb 2022

- Developed a Django and React.js based cloth prediction dashboard to predict stitch type and pattern, which secured a Proof of Concept (POC) project, enhancing the company's project portfolio
- Led project team as technical lead, mentoring two interns, for efficient task allocation and timely project delivery
- Optimized full-stack development workflows by integrating RESTful APIs, database management, and frontend optimizations, enhancing dashboard performance and user experience

Payoda Technologies Pvt Ltd

Software Developer

Coimbatore, India
Feb 2020 - May 2021

- Developed an application using Flask, React.js, and NLP to enhance Customer Care efficiency for Verizon, leading to a successful Proof of Concept (POC) project and demonstrating the viability of Agile methodologies
- Integrated Google's Speech to Text API for voice transcription and applied sentiment analysis using NLP methods, improving the accuracy of customer feedback
- Optimized backend performance by streamlining API responses and data processing, reducing response times and improving the application's overall efficiency

myTheo

Backend Developer

Coimbatore, India
Feb 2020 - Feb 2021

- Designed features for myTheo, a real estate client with agencies across the USA and headquarters in California, using Ruby on Rails, HAML, and SCSS, which increased company sales by 20%
- Integrated Google Street View API to provide interactive 360-degree street-level imagery for each real estate listing, enhancing user engagement
- Improved system scalability by optimizing database queries and refining API performance, leading to faster property search results and an improved user experience

Alternative Soft

Software Developer Intern

Coimbatore, India
Aug 2019 - Feb 2020

- Developed portfolio construction software and processes for institutional investors using .NET, Angular, Microservices, and SQL, which increased clientele by 40%
- Implemented CI/CD practices using Vercel and Node.js to streamline the software release process, improving deployment speed and reliability

PROJECTS

PitcherAI

Aug 2024 - Present

- Spearheaded the creation of PitcherAI, a tool that converts product reviews from the Internet into AI-generated marketing pitches, customized for social media platforms like YouTube, Instagram, and TikTok.
- Simulated diverse audience profiles using LLMs, enabling real-time assessment of the effectiveness of marketing pitches across various age groups and professions.

FlashMindAI

Aug 2024 - Sep 2024

- Teamed up with 3 Fellows to build and deploy a SaaS product generating dynamic flashcards based on any topic using the Llama 3.1 LLM via the Groq API, integrated a paywall and custom pricing plans using the Stripe API

HelpDesk Chatbot

Feb 2024 - May 2024

- Engineered and built the Help Desk chatbot, serving as primary contact method for the UWM IT Help Desk utilizing Django, RAG, Langchain, React.js, Kafka, Material UI, MySQL and AWS
- Used RAG to feed Universities KB's to LLM to Pinecone's vector database.

Portfolio

Dec 2023 - Jan 2024

- Architected Personal Portfolio website showcasing projects, skill set and experience using React.js and Tailwind CSS and leveraged GitHub pages for hosting

EDUCATION

University of Wisconsin-Milwaukee

Master of Science, Computer Science

Milwaukee, WI
Sep 2022 - May 2024

Sri Ramakrishna Engineering College

Bachelor of Engineering, Computer Science

Coimbatore, India
Aug 2016 - May 2020