

BINIL TOM JOSE

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Career Profile

Versatile and driven IT professional with strong hands-on experience in full stack web development and a deep focus on artificial intelligence applications. Skilled in designing and deploying scalable AI models, particularly large language models (LLMs), with proven capability in natural language processing and applied machine learning. Proficient in React, Node.js, Python, and SQL, with a solid understanding of end-to-end product development. Demonstrated ability to work collaboratively across cross-functional teams, translating technical concepts into practical solutions. Eager to contribute to innovative property tech solutions by combining AI expertise with strong software engineering foundations. Seeking to apply and expand AI capabilities to real-world platforms, with the long-term goal of becoming a lead engineer building intelligent systems that transform industries.

Education

02/2024 – Current	Master of Information Technology Deakin University, Burwood, Melbourne <ul style="list-style-type: none">Expected completion date: November 2025Major: Software Services and DevelopmentAchieved: High Distinction(Average)
July/2019– June/2023	Bachelors in Computer Science & Engineering APJ Abdul Kalam Technological University, India <ul style="list-style-type: none">Achieved: First Class with Distinction.Received Merit Award for BTech Semester 3
April/2018-April/2019	Central Board of Secondary Education United Indian School, Kuwait

Technical Skills

- AI & LLM Tools:** ChatGPT, Claude, Cursor, Ollama, Prompt Engineering, LLM Fine-tuning
- Frontend:** React.js, Next.js,Vue.js, JavaScript, HTML, CSS
- Backend:** Node.js, Express.js, ASP.NET, VB.NET, REST APIs, GraphQL
- Programming:** C, C#, Java, Python
- Databases:** SQL Server, MySQL, MongoDB , Prisma
- Tools & DevOps:** Git, GitHub, Bash, CI/CD, AG Grid, ABCPDF, VS Code, Visual Studio
- Concepts:** Data Structures & Algorithms, OOP, SDLC, Software Design Patterns
- Other:** MS Office Suite (Excel, PowerPoint, Word)

Projects

July/2025 – Current

Tinder Recipe Discovery App (Personal Project – In Development, 2025)

- Building an innovative, swipe-based web app that provides AI-powered recipe recommendations tailored to user tastes and available ingredients.
- Includes a feature where users can upload a photo of their fridge, and the system uses computer vision and NLP to detect items and suggest meals accordingly.
- Developed a sleek and responsive UI with React, Zustand, and TailwindCSS, and integrating a backend with Node.js and MongoDB for data handling and user sessions.
- Enhancing user experience with smart filters, dynamic carousels, and an intuitive onboarding walkthrough.
- Tech Stack: React, Zustand, TailwindCSS, Node.js, MongoDB, OpenCV, Hugging Face Transformers

Feb/2025 – Current

LLM-based Hate Speech Detection System (Research Project, 2025)

- Published initial research on hate speech detection using traditional and deep learning models including CNN-LSTM, Fuzzy Logic, and Random Forest, presented at the ICDSAC Conference.
- Currently conducting advanced research into the application of Large Language Models (LLMs) such as LLaMA for more accurate and context-aware hate speech classification.
- Developing and benchmarking improved NLP pipelines, fine-tuning prompts, and evaluating model performance across precision, recall, and F1 metrics.
- Tech Stack: Python, LLaMA, Flask, Scikit-learn, TensorFlow/Keras, MongoDB

April/2025- May/2025

Career Companion App (University Project, 2025)

- Developed a personalized AI-powered career assistant using LLaMA 2 to provide chatbot guidance, resume feedback, and tailored interview preparation based on selected career goals.
- Integrated a Flask backend with a dynamic Android frontend using Java, enabling persistent user data, question generation, and performance tracking.
- Applied prompt engineering and NLP techniques to fine-tune chatbot responses and improve relevance by 20% based on user testing.
- Tech Stack: LLaMA 2, Python, Flask, Java (Android Studio), MongoDB, OpenAI-compatible endpoints.

Jan/2025- March/2025

Kootical Pravasi Association Web Platform (Client Project(Freelance), 2024)

- Built and deployed a fully responsive registration and membership portal with separate user and admin dashboards.
- Implemented authentication, form submissions, and role-based access control, using React, TailwindCSS, Material UI, and Prisma with a SQL backend.
- Designed a dashboard UI that improved user engagement and reduced bounce rate by 35%.
- Tech Stack: React, Prisma, TailwindCSS, Material UI, Node.js, SQL

Work Experience

Feb/2025 – Current

DeakinTALENT Career Ambassador (Peer Mentor)

Deakin University – Melbourne, VIC

- Guide fellow students on career pathways, helping them engage with programs focused on tech, AI, and digital upskilling.
- Support career fairs and employer sessions, connecting students with industry opportunities and enhancing technical communication.
- Foster a culture of self-driven learning, mentoring students on portfolio development and industry readiness.

Jan/2025 –Current

Research Apprentice – AI & NLP

Deakin University – Melbourne, VIC

- Conduct advanced research on hate speech detection using LLMs like LLaMA, with emphasis on prompt engineering and ethical AI.
- Published prior research using CNN-LSTM, Random Forest, and Fuzzy Logic at the ICDSAC 2023 Conference.
- Design, test, and evaluate NLP pipelines for text classification using Python, Flask, MongoDB, and Hugging Face Transformers.
- Collaborate with cross-functional researchers to explore hallucination minimization, improving precision and recall scores.

Sept/2024 –Nov/2024

Data Analyst Intern – Kmart

Camberwell – Melbourne, VIC

- Worked closely with the supply chain team to streamline import/export operations involving global container shipments.
- Automated manual calculations performed across multiple Excel sheets by leveraging Python, reducing processing time and human errors.
- Developed a Python-based solution that incorporated the company's existing datasets and mathematical formulas, enabling real-time calculations when files were uploaded.
- Successfully transitioned the team to an automated workflow, increasing operational efficiency and accuracy.

July/2023–Feb/2024

IT Programmer – American International School of Kuwait

Salmiya– Kuwait City

- Developed student dashboard using ASP.NET and VB.NET, increasing data management efficiency by 40%.
- Implemented CRUD operations and database connectivity reducing data retrieval time by 30%.
- Integrated AG Grid for data display, enhancing user productivity by enabling sortable, filterable, and paginated views.
- Facilitated secure file uploads and PDF generation using ABCPDF, processing over 500 documents securely.

Jan/2021 –Jun/2021

Web Developer Intern – Rajagiri Hospital

Kochi– India

- Built a responsive hospital dashboard using Vue.js and Axios, improving real-time data visibility for medical staff.
- Optimized API integration and performance, reducing data fetch time by 30% and achieving 99.9% uptime.
- Collaborated on UX improvements, raising user satisfaction through intuitive interface design.

Teaching and Training Experience

Jan2021 – Present

Freelance Python & Full Stack Instructor

Remote

- Tutored 8+ students remotely via Zoom, covering Python programming, web development (HTML, CSS, JavaScript, React, Node.js), and database management.
- Created lesson plans, assignments, and hands-on coding exercises tailored to each student's needs.
- Helped students build real-world projects and improve problem-solving skills.
- Guided students in open-source contributions and hackathons; two participants successfully completed Hacktoberfest.
- Several mentees secured internships and freelance roles based on the skills and projects developed under my mentorship.

Volunteer Experience

10/2021 – 11/2021

Publicity Officer

IEEE Phoenix, Kerala, India

- Promoted campus recruitment drives by MNCs, using strong public speaking and digital communication skills to engage 500+ students.
- Collaborated with student committees to organize events, demonstrating teamwork, event coordination, and persuasion.

08/2021 – 10/2021

Team Lead – Millennium Fellow (Project Xplore)

United Nations Millennium Fellowship, Hybrid

- Delivered workshops and seminars on real-world skills to 100+ students, showcasing leadership, presentation, and community engagement abilities.
- Managed a small team, built partnerships with schools, and ensured impact reporting—highlighting skills in project management, stakeholder communication, and social impact strategy.

07/2020 – 07/2020

Marketing & Outreach Officer

MyCaptain, India (Remote)

- Conducted community outreach campaigns, improving visibility through effective customer service, social media communication, and brand messaging.
- Responded to student queries and onboarded new users, refining interpersonal and support skills.

12/2019 – 12/2019

Technical & Event Volunteer

IEEE Student Branch, Kerala, India

- Supported student coding events and workshops, contributing to a collaborative learning environment and strengthening technical communication and team collaboration.
- Helped with logistics and peer mentoring during hackathons, gaining exposure to event planning and hands-on technical facilitation.

Referees

Vedha Dhuri
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