

Manikandan Sundararaman

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EDUCATION

ARIZONA STATE UNIVERSITY

MS, COMPUTER SCIENCE

2024-2025 | Tempe, AZ

VIT UNIVERSITY, Chennai

B. TECH, COMPUTER SCIENCE

May 2021 | Chennai, India

CGPA: 3.0/4.0

SKILLS

PROGRAMMING

• JavaScript • Golang • Java • C • C++ • SQL • Python • Git

FRAMEWORKS & TOOLS

• Angular • TypeScript • React • Redux • NodeJS
• Hapi • MySQL • PostgreSQL • gRPC • MongoDB
• REST & SOAP APIs • TDD – Go & Cypress

COURSEWORK

• Software Engineering • OOP & DSA
• Databases & Networking • Machine Learning
• Language Models & Diffusion Models

ACADEMIC PROJECTS

• HighSight (detailed right-side) • Number Plate Validation
• Parking Space Detection • Snow Rush (Unity-based game)
• End-to-end Web applications

ACHIEVEMENTS

• HighSight – One of the top 30 computer science final year projects at VIT University Class of 2021

WORK EXPERIENCE

VENDASTA | SOFTWARE DEVELOPER

Startup managing digital marketing for business users and agencies

Work Location: Chennai, India | Dates: March 2023 – December 2023

- **Advertising Intelligence (Ad Intel) – Developed and maintained features** on the Pay-Per-Click (PPC) **advertising reporting tool** by managing statistics from ad sources. **Integrated new and enhanced existing sources** such as LinkedIn, Google Ad Manager, TikTok, Amazon, Google, and Facebook Ads. **Provided documentation for managing development of new connections, and optimized code quality.**
- **CalendarHero - Developed and maintained features** for the **automated meeting scheduling tool** that books on both Google and Microsoft Outlook Calendars, scheduling meetings by Zoom or Google Meet. **Fixed issues and**

optimized code.

- **Tech Stack** – Golang, Angular/TypeScript, gRPC, REST & SOAP APIs, SQL & MongoDB. Google Cloud – Data storage & CI/CD.

SURVEYSPARROW | FULL-STACK ENGINEER (PRODUCT DEVELOPER)

Startup managing online survey experiences for B2B customers
Work Location: Chennai, India | Dates: May 2021 – Aug 2022

- **CX (Customer Experience) – Developed and enhanced features** in the **end-to-end surveying platform** enriching user experience for NPS (Net Promoter Score) type surveys. **Optimized team efforts by introducing design documentation.**
- **Integrations – Maintained codebase design patterns** for **integrations** to third-party applications such as Zendesk, Hubspot, and Active Campaign. **Improved code quality imparting best practices and performing full-stack optimizations.**
- **Tech Stack** – React, Redux, NodeJS with Hapi, PostgreSQL, REST APIs, Elasticsearch

PROJECT AND RESEARCH WORK

CASE STUDY OF LARGE LANGUAGE MODELS

- ❖ **Performance analysis** of pre-trained and publicly available LLMs encompassing **Natural Language Understanding** tasks such as **sentiment analysis, named-entity recognition, and text classification**, as well as **Natural Language Generation** tasks such as **dialogue generation, story completion, and text summarization.**
- ❖ Includes a bird's eye view of **ethical considerations** such as **bias, fairness, and privacy concerns.**

HIGHTSIGHT | CONTENT HIGHLIGHTING AND VOTING EXTENSION

- ❖ Designed, implemented, and tested a Chrome extension, which provides users with functionalities of
 - **Saving text highlights and opinions** about the **quality of the content highlighted** through upvoting/downvoting, and **displayed on page load for the user community.**
 - **Page reputation**, computed by overall votes of users, is **shown highlighting each search result title on the Google Search page** for users using the extension.
- ❖ Extended the project to a review paper titled [Comparative Studies of Page-Ranking Algorithms](#), analyzing page rank optimizations associated with each.
- ❖ **Tech Stack** - Java, Spring Boot, JavaScript, Chrome Extension framework, MySQL.