

Iyappan G S *Software Development Engineer*

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📄 Profile

Senior software engineer with 3 years at AT&T building customer-facing applications that serve millions of users across the US and worldwide. Focused on full-stack development, API performance optimization, and agentic AI workflows. Background in systems programming; from Linux kernel contributions to building a game engine from scratch and writing a programming language with its own compiler. I build across the entire spectrum, from bare metal to the browser.

🎓 Education

B. E, Computer Science and Engineering

Chennai Institute of Technology 📄

2020 – 2024 | Chennai, India

CGPA: 9.2

Passed out with Distinction

💼 Professional Experience

Senior Associate Applications Developer

AT&T 📄

2024/05 – present | Chennai, India

- Build and maintain customer-facing applications used by all AT&T clients across America and worldwide, spanning Sales and Account Services
- Reduced several downstream API response times from 11–15 seconds to 3-5 seconds through targeted DX and UX performance optimization
- Designed and built an agentic AI workflow that auto-generates functional requirements by synthesizing data from 7+ internal enterprise sources turning weeks of manual work into minutes
- Built internal tooling that streamlines processes and improves productivity across multiple teams
- Recipient of 4 prestigious company awards: Transformer Award, YouDeserve Award, Connection Award x2

Staff Associate Technical Intern

AT&T 📄

2023/05 – 2024/04 | Chennai, India

- Led migration to an entirely new tech stack, improving application load times by 96.4%
- Worked across full-stack development and software engineering on customer-facing products

Technical Intern

Mark 1 Engineering Solutions

Chennai, India

- Optimized 3 landing pages, driving a 12% organic increase in search traffic

📁 Projects

Hearth

Compiler/language design

A programming language built from scratch with a complete lexer, parser, and AST. A deep-dive into compiler architecture and language design.

Hethor Game Engine 📄

C++, Vulkan, OpenAL, GLFW, Glslang, Freetype, Volk

Open Source game engine with features like an Entity Component System, Custom Rendering Pipeline and Advanced Physics

Linux Kernel Contributions

C

Contributed to NVIDIA open-source GPU drivers and Bluetooth subsystem patches for the Linux kernel.

Panbase

Bun, Elysia.js, TailwindCSS, Typescript, HTMX, Turso

A complete Backend-Base-as-a-Service in a single executable along with Database, authentication and e-mail verification.

Engine Fluid Sim

C++, Vulkan, OpenAL, GLFW, GLSlang, Freetype, Volk

A 1:1 high performance complete fluid simulation engine capable of simulating air pressures in all types of engines.

ProChecked

VueJS, MySQL, FastAPI, Python, Flutter

An Individual project management app, integrated with an in-house AI to manage tasks

Skills

Languages

TypeScript, JavaScript, Java, Python, C/C++, Go, Rust

Infrastructure

Docker, Kubernetes, CI/CD, AWS, Azure

Databases

PostgreSQL, MySQL, Cassandra, MongoDB

Courses

Introduction to Computer Science and Programming

Massachusetts Institute of Technology

Cambridge, USA

CS229 Machine Learning

Stanford University

Palo Alto, USA

Data Science Specialization

Johns Hopkins

Baltimore, Maryland, USA

Frameworks

Next.js, React, Spring Boot, Node.js, FastAPI, Vue, Svelte

Systems

Linux Kernel, Vulkan, OpenGL, DirectX, Compiler Design

Awards

YouDeserve Award

AT&T

Connection Award x 2

AT&T

Transformer Award

AT&T

2025

1st place, CodingNinjas Hackathon

CodingNinjas, Chennai Institute of Technology

2022

Gold Medal

National Cyber Olympiad

2016