

# Subash Ganesan

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## SUMMARY

Full-stack developer with 6+ years of professional experience in embedded systems, web development, and enterprise tooling. Recently completed an MS in Computer Science with projects in AI-assisted UX, data visualization, and cloud-based service integration.

## EDUCATION

### Master of Science - Computer Science

*Portland State University; GPA: 3.97*

**Sep 2023 - Jun 2025**

*Portland, OR*

### Bachelor of Engineering - Computer Science

*Anna University*

**Aug 2013 - Apr 2017**

*Chennai, India*

## SKILLS

**Programming Languages** Python | Java | C | C# | JavaScript | Kotlin

**Framework** React.js | Node.js | Vue | Flask | Restful APIs

**Devops & Cloud** GCP | AWS | Docker | Claude API

**AI & Data Tools** ClaudeAPI | Agno Multiagent library | Edamam API

## EXPERIENCE

### Zilogic Systems

**Sep 2017 - Dec 2020**

*Chennai, India*

*Software Engineer*

- **Technologies:** Java, JavaFX, JavaScript, SIP, Apache Commons, WebSockets, EmbeddedC
- Contributed test cases (e.g., statx, MADVWIPEONFORK) to the Linux Test Project (LTP); included in upstream releases since Sep 2018.

### Zilogic Systems

**Jan 2021 - Sep 2023**

*Chennai, India*

*Senior Software Engineer*

- **Technologies:** Java, JavaFX, JavaScript, SIP, Apache Commons, WebSockets
- Developed a scalable IP-based PA system using SIP-enabled speaker systems. Designed a GUI for multi-cast/broadcast features and playback of pre-recorded messages. This was built with Javascript and Java.
- Architected an in-house solution for creating custom GUI for custom forms for enterprise applications using Domain objects. This is now used extensively by the sales team. This was built with JavaFX and Apache Commons Beanutils.

## NOTABLE PROJECTS

### AI Test Driven Execution

**Jul 2024 - Sep 2024**

*Chennai, India*

*Hobby Project*

- Designed and implemented an AI-based test automation framework using Agno and Claude to analyze build failures and perform root-cause diagnostics.
- Integrated custom tools for test execution, log parsing, and failure de-duplication, enabling multi-step reasoning through agent tool-calling.
- Showcased integration in CI pipelines to automate failure diagnosis and reduce manual debugging effort.

### Art Gallery

**Apr 2024 - Jun 2024**

*Portland, Oregon*

*Graduate Project*

- Led development of an art gallery UX for the Rijksmuseum gallery using React and Chart.js.
- Provided customizable views for exploring artwork by artists, historical period, style, medium.
- Continuous feedback was obtained from users and incorporated - navigational features and general responsiveness of the site.

### Weekly Meal Planner

**Jan 2024 - Mar 2024**

*Portland, Oregon*

*Graduate Project*

- Built a weekly meal planner/shopping list app powered by Edamam recipe search
- This incorporated WHO recommendations to create meals that are balanced. The comments on the recipes was also analyzed using AI to rank them.

### Smart Vehicle Navigation System

**Mar 2015 - Apr 2016**

*Chennai, India*

*Undergrad Project*

- Led a 3-member team to build an Android app to alert and assist long-haul truck drivers with fuel level alerts.
- Google Maps integration was also built into the app to automatically navigate to the nearest gas station when the fuel levels fell below a threshold.
- The levels and refueling points were pushed to the cloud for effective tracking and budgeting
- This was done fully in Java. The data storage was hosted on Firebase Cloud.