

# Ashwatha Easwaran Sureshkumaar

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## EDUCATION

**Northeastern University | GPA – 3.7/4.0**

**Expected Dec 2026**

*Master of Science in Software Engineering Systems*

*Boston, MA*

**Course:** Web Development (React, Angular), Database Design, Object Oriented Design and Programming (JAVA)

**PSG College of Technology | GPA – 3.12/4.0**

**Apr 2023**

*Master of Science in Software Systems (5-years integrated)*

*Coimbatore, TN*

**Course:** Machine Learning, Data Structures and Algorithms, Cloud Computing, Operating Systems, Computer Networks and TCP/IP, Agile Development

## EXPERIENCE

**Caterpillar Inc - Associate Software Engineer (Full-Stack)**

**Jan 2023 - Jul 2024**

*Tech Stack: Linux, Vue.js, Node.js, JavaScript, Electron.js, C#*

*Chennai, TN*

- **Spearheaded Linux software deployment on Ubuntu using Vue.js, JavaScript, Electron.js**, modernizing **legacy Bash scripts** for touchpad mapping, remote access, and video setup, **boosting performance 40%**
- **Executed SDLC with agile workflows, CI/CD pipelines, automated testing, and debugging**, reducing **post-release defects 30%**, earning **leadership recognition**
- **Automated Linux USB-touchpad pairing and video output persistence**, removing manual reconfiguration, accelerating **deployment speed**
- **Optimized** real-time GPS synchronization and backend performance in **C#**, ensuring compliance with **vehicle data protocols**, **increasing uptime 30%** and **reducing latency 50%**
- **Built** a standardized **Figma UI library** for 5+ applications, reducing **design inconsistencies 30%**, improving **cross-functional collaboration**
- **Integrated multi-language support and API connections in Vue.js via Node.js**, increasing **frontend performance 20%**, leveraging **Git for collaboration**
- **Researched and implemented IPC Renderer for Node.js-Vue communication**, leading **team-wide adoption**, increasing **API responsiveness 25%**

**Anand Rathi Wealth Services Ltd - Software Engineer Intern**

**May 2020 - Nov 2020**

*Tech Stack: Python, Node.js, REST API, Sequelize, SQLAlchemy*

*Mumbai, MH*

- **Developed and optimized secure REST APIs using Node.js, Python for 10K+ daily transactions**, improving **query speed 20%** on AWS
- **Automated Excel data reporting using Node.js**, reducing **manual effort 30%**, fixing **95% of inconsistencies**, improving accuracy for 500+ employees
- **Engineered COB APIs and brokerage automation using Sequelize, AWS S3**, enabling **real-time tracking** and ensuring **secure cloud storage**
- **Refactored .dbf file processing using Python (SimpleDBF)**, eliminating **70% manual input**, optimizing **financial workflows 40%**
- **Implemented real-time Slack alerts**, reducing detection by **60%**, ensuring **24/7 uptime**, and improving **system reliability**
- **Analyzed financial data mismatches using Python, Pandas**, diagnosing **Master table integration issues**, suggesting **data validation improvements**

## PROJECTS

**Food Factory App ([Link](#)) | Node.js, Express.js, Sequelize, MySQL, Docker**

**Mar 2022**

- **Built** an ordering system using **Node.js** and **Sequelize** to track 500+ requests, improving processing **efficiency 30%**
- **Optimized inventory logic in MySQL**, reducing stock errors **20%** and accelerating order fulfillment

**Virtual Study Group ([Link](#)) | Java, JavaFX, Chat Server, File Handling**

**Nov 2024**

- **Developed** a study hub with **JavaFX**, enabling 50+ students to chat, share files, and organize sessions
- **Implemented event tracking** for 100+ sessions, improving scheduling and participation

## TECHNICAL SKILLS

**Programming & Frameworks:** Python, Java, C, C++, C#, JavaScript, TypeScript, R, SQLAlchemy, Sequelize, Pandas, NumPy, TensorFlow, PyTorch

**Cloud & Databases:** AWS (S3, Lambda, API Gateway), Azure, SQL, MySQL, PostgreSQL, NoSQL, Oracle

**Frontend & Backend Technologies:** Node.js, Vue.js, React, Angular, RESTful APIs, JSON, PHP, HTML, CSS, UI/UX

**Development & Tools:** Git, GitHub, Docker, Linux, Unix, Bash, JIRA, Visual Studio, Figma, CI/CD Pipelines