

# Boopathy Ganesh K

## Full Stack Developer

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### SUMMARY

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Results-driven Full-Stack Developer with expertise in **Python, Next.js, AWS** specializing in building **scalable web applications**, RESTful services, cloud solutions, and automation tools. Passionate about optimizing system **performance, enhancing user experience**, and developing **secure, high-impact** software solutions. Adept at leveraging **AI-driven technologies** and cloud computing to drive innovation. Seeking to contribute my **problem-solving** skills, **leadership** abilities, and technical expertise to a **dynamic team focused** on cutting-edge **development** and **security**.

### EXPERIENCE

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**FULL STACK DEVELOPER** **VALUE1** **JUL 2024 - PRESENT**

**VALUE GOLD STORE** (<https://app.value1.in>) : AN E-BULLION PLATFORM

**REWARDS APPLICATION** (<https://value1.gold>) : AN GOLD REWARD PLATFORM FOR CUSTOMERS

- Spearheaded the development of Value1 Gold Store and Value1 Rewards Application, improving customer engagement.
- Designed and deployed a **white-label rewards platform** using a **multi-tenant architecture**, enabling seamless customization and **scalability** across multiple clients. Managed and optimized **AWS cloud infrastructure, ensuring 99.9% uptime** and streamlined deployment processes.

**FULL STACK DEVELOPER** **HEPTRE TECHWORKS** **JUL 2023 - NOV 2023**

- Led the design and development of an Admin Dashboard, improving workflow **automation by 30%**.
- Enhanced system performance by implementing **efficient data storage** and robust backend logic. Optimized file generation process, **reducing manual workload by 40%**.
- Manually conducted rigorous testing on the client's student enrollment platform, identifying and **fixing performance bottlenecks**, which led to a **45% increase** in client **productivity**.

### INTERNSHIP AND CONTRACT EXPERIENCE

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**SOFTWARE DEVELOPER INTERN** **PSG INSTITUTIONS** **JAN 2023 - JUN 2023**

**iroGEN**: Internal student Placement Enrollment Platform

- Developed and maintained a placement automation system, **reducing manual data entry by 50%**.
- Improved student onboarding efficiency through a structured registration portal.

**FULL STACK DEVELOPER (FREELANCE)** **LIVSTYLE HOMES** **OCT 2024 - JAN 2025**

**Livstyle Homes** (<https://livstylehomes.com>) : A Landing page that showcases the client's expertise

- Developed and deployed a landing page for an interior/exterior builder using **Next.js**, enhancing online **customer engagement**.
- Integrated an enquiry form and connection request form, **automating data storage in Google Sheets via Google Apps Script, reducing** manual data entry time **by 60%**.

## EDUCATION

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Master of Computer Applications(MCA) - (CGPA- 8.56)

2021-2023

PSG COLLEGE OF ARTS & SCIENCE

Coimbatore, Tamil Nadu

Bachelor of Science (Information Technology) - (CGPA - 8.81)

2018-2021

SIR ISSAC NEWTON COLLEGE OF ARTS & SCIENCE

Nagapattinam, Tamil Nadu

## PROJECTS

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PERSONAL PORTFOLIO: <https://boopathyganesh.vercel.app> (FOR ADDITIONAL INFORMATION)

GITHUB PROFILE: <https://github.com/boopathyganesh>

### FACEPY – FACIAL RECOGNITION ATTENDANCE SYSTEM

- Developed a **computer vision-based attendance system with 93% accuracy, reducing** manual attendance **errors by 85%**. Used **RCNN** and **OpenCV** for real-time face detection and tracking.
- **Tech stack:** Python, OpenCV, RCNN Algorithm implementation, MySQL, Pytorch, Numpy, Pandas.

### iroGEN – AUTOMATED PLACEMENT MANAGEMENT PLATFORM

- Automated student placement workflows, **reducing manual processing time by 50%**.
- Designed a document verification system that **improved accuracy by 30%** using Tesseract OCR.
- **Tech stack:** Python, Django, Tesseract, HTML5, CSS, Javascript, MySQL.

### iroTRACK - A DAILY TASK MANAGER WITH TEAM COLLABORATION (<https://irottrack.netlify.app>)

- Developed a task management platform enabling teams to assign, track, and collaborate on daily tasks efficiently. Integrated real-time updates, progress tracking, and notifications, **improving team productivity by 45%**.
- Built with a scalable architecture to support **multi-user collaboration** and **role-based access control**.
- **Tech stack:** Netlify, Next.js, Tailwind CSS, MongoDB

### vSUITE – PC AUTOMATION SUITE

- Designed an automation suite for **non-tech users, cutting manual PC operations by 70%**. Implemented **YOLOv3** and **TensorFlow**-based automation, making the system **90% more efficient**.
- Presented and secured funding from TNSCST under the **Student Project Scheme**. Published research in **IJPUBLICATION (Volume 13, Issue 2, May 2023, E-ISSN: 2250-1770)** - <https://rijpn.org/ijcspub/papers/IJCSP23B1222.pdf>
- **Tech stack:** OpenCV, Python, YOLOv3, Tensorflow, pyautowin, Tesseract

## SKILLS

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- **TECHNICAL: (PROFICIENT):** Python, C, HTML, CSS, React, APIs, Next.js, MySQL, MongoDB, AWS (Common Services), Git, Linux (**FAMILIAR**): Java, C++, Javascript, Firebase
- **CONCEPTUAL:** DSA, SOLID principles, Secure Coding, Vulnerability Analysis, SDLC Understanding