

VIGNESH SWAMINATHAN

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EDUCATION

Boston University | Boston, MA

Master of Science in Computer Science | GPA: 3.65/4.0

Jan 2026

Relevant Coursework: Software Engineering, Data Science with Python, Adv Machine Learning, Deep Reinforcement Learning

Visvesvaraya Technological University | Bengaluru, IN

B.E. in Information Science | GPA: 3.60/4.0

May 2024

Relevant Coursework: AIML, Data Structures and Algorithms, Database Management, Cryptography

RELEVANT EXPERIENCE

Boston University MET IT | Boston, MA

Sep 2024 - Jan 2026

Information Technology Analyst

- Led development and automation initiatives on the ServiceNow platform, designing workflows and AI-assisted enhancements to streamline ticket triage, reporting, and resolution while also supporting daily incidents across the university
- Maintained cloud-based tooling and dashboards using Microsoft Azure, Power BI, and Office 365 integrations: authored and optimized backend knowledge-base and system documentation artifacts, reducing average ticket resolution time by 25%

DSATM Department of Information Science | Bengaluru, IN

Oct 2023 - Feb 2024

Teaching Assistant Instructor

- Taught C++ concepts to over 60 Computer Science majors, assisting students in understanding key programming principles, collaborated with two other teaching assistants to coordinate office hours, develop lesson plans, and ensure timely grading

JIO Platforms Limited (Reliance Industries) | Bengaluru, IN

Aug 2023 - Dec 2023

Android Developer Intern (Project: AVNI OS)

- At JIO we developed an electric vehicle companion app and cluster, implementing Bluetooth communication for real-time data exchange, command transmission, reviewed design docs and prototypes, improved feature delivery accuracy by 20%
- Performed Automated testing and triaged bugs with engineers. Managed project development via Microsoft Azure, Android Studio and Flutter, Reviewed UI/UX design based on Figma prototypes increasing workflow efficiency by 15%

PROJECTS

- **Menu Match:** A web app for restaurant discovery and reviews based on dietary preferences, integrating Google APIs, NLP, and ML recommendations. Deployed with Docker, AWS EC2, Jenkins, GitHub for CI/CD, and managed via JIRA
- **Collider Scope:** A big data analytics platform for particle physics classification, PySpark and Databricks to train and tune large-scale ML models. Used feature extraction pipelines to process kinematic data, validating performance with > 0.85 AUC
- **IOT Smart Home Using Arduino:** An Arduino-based system using NLP and voice recognition to control sensors, lights, fans, and alarms via relays. Integrated with a mobile app for seamless automation routines, and hands-free control
- **Law-Run Kernel:** Developed and maintained a custom Linux 4.9 based kernel for Qualcomm Snapdragon 845 devices, integrating (CAF) sources with upstream Linux patches, security driver and published on GitHub for community usage

CONFERENCE & PUBLICATIONS

International Conference on Advances in Artificial Intelligence and Computer Science (ICAAICS-2024)

Chennai, IN

- AI BASED SECURITY SURVILLANCE SYSTEM- AN OVERVIEW has been accepted and published by ieeeForum in association with the Institute of Research and journals- [Link](#)

7th International Conference on Innovative Computing and Communication 2024, A Flagship Conference

Delhi, IN

- AI and Blockchain in Food and Beverage - Marketing 5.0 Approach, is published in the Springer LNNS series, organized by Shaheed Sukhdev College, University of Delhi, NIT Patna & University of Valladolid, Spain- [Link](#)

TECHNICAL SKILLS & ACHIEVEMENTS

- **Programming Languages:** C, C++, Python, Java, JavaScript, Html, CSS, PHP
- **Tools:** Android Studio, Flutter, Figma, Azure, AWS, EC2, ServiceNow, Docker, Jenkins, Jira, Hadoop, GitHub, Git, Metasploit, OpenSSL, Wireshark, ASP.NET, React.js, Django, MySQL, MongoDB, Pandas, NumPy, PyTorch
- **Achievements:** Won bronze medal in powerlifting at the district level championship held in Bengaluru, Achieved 2nd rank (Silver Medal) across the Information Science Department in the 2023-24 examinations with a GPA of 3.9/4.0

CERTIFICATIONS

- Introduction to Programming with Python and Java, University of Pennsylvania Credential ID- Z7GSZ37TBFAK
- Google Data Analytics Specialization Credential ID- 8HCNNMFQPLTZ