

# Yashvanth Karunakaran

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## SUMMARY

Computer Science undergraduate with strong proficiency in C++, Java, and Python, and a solid foundation in data structures, algorithms, and object-oriented programming.

## EDUCATION

**Vellore Institute of Technology, Chennai (Rank Holder)**

B.Tech. in CSE (AIML)

05/2023 – 05/2027

CGPA: 9.75 / 10

## TECHNICAL SKILLS

**Languages:** C, C++, Java, Python, JavaScript

**Frameworks/Web:** HTML, CSS, React.js, Next.js, Node.js, Express.js, FastAPI, Flask

**Databases:** MongoDB, MySQL, PostgreSQL, Firebase

**Tools and Technologies:** GitHub, AWS, NumPy, Pandas, Matplotlib

**Concepts:** Data Structures, Algorithms, Object-Oriented Programming, RESTful APIs

## EXPERIENCE

**Full Stack Developer Intern**

06/2025 – 08/2025

Daira Edtech Pvt. Ltd.

Technologies: Next.js, NeonDB, PostgreSQL

- Built **6+** major front-end and back-end features for a UPSC learning platform.
- Collaborated with a 4-member engineering team to build and optimize the USPC learning platform.

**Research Intern**

05/2023 – 05/2024

Center for Cyber Physical Systems, Vellore Institute of Technology, Chennai

- Implemented Python scripts for data preprocessing and evaluation, collaborating with **3+** researchers.

## PROJECTS

**Launchly - Web App Deployment Platform**

GitHub

Technologies: React.js, Express.js, AWS S3, EC2, API Gateway, Lambda, DynamoDB

- Automated deployment pipelines on AWS, reducing manual setup and deploy time by **88%**.
- Improved application delivery speed by **3 times** using optimized AWS EC2 build instances.

**VIT FFCS Planner**

GitHub

Technologies: React.js, JavaScript, Local Storage

- Deployed a Course/Slot planner that reduced manual planner creation effort by **70%**.
- Improved retention by **60%** by saving user preferences in browser local storage.
- Designed and deployed a slot-validation algorithm that resolved **85%** of scheduling conflicts during testing.

## CERTIFICATIONS

- **Harvard CS50p** - Programming with Python (edX): File input/output and data structures.
- **Supervised Learning - DeepLearning.AI (Coursera)**: Regression, classification, neural networks.
- **The Complete Full-Stack Web Development Bootcamp - Dr. Angela Yu (Udemy)**: HTML, CSS, JavaScript, Node.js, Express, MongoDB.

## ACHIEVEMENTS

- Secured **2nd Place** in Juice Shop CTF Competition - Identified 19+ web security flags.
- Achieved **2nd Place** in Web Works Hackathon – Developed a full stack application under a 24-hour deadline.
- Ranked **2nd out of 500+ students** in AIML specialization, VIT Chennai (03/2025).
- Ranked in the **top 9 of 300+ students** in Electronics and Computer Engineering (03/2024).

## JOB-SPECIFIC QUALIFICATIONS

- **Programming and Data Engineering:** Strong foundation in Python (Pandas, NumPy, Scikit-learn), and SQL queries.
- **Analytics and Statistical Modeling:** Proficient in statistical analysis using Python, R, and SQL.
- **Software Engineering Practices:** Applied SDLC principles in developing and deploying projects like Launchly.