Amogh Brahma R

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amogh344

Profile

I'm a third-year Information Science and Engineering (ISE) student with a strong passion for cybersecurity and emerging technologies. I thrive in collaborative environments where I can build, innovate, and learn alongside others. I'm actively seeking industry opportunities to grow my skills and contribute meaningfully to impactful projects.

Technologies

Languages: C, C++, Java, Python, HTML, CSS, JavaScript, SQL

Frameworks/Libraries: React (Frontend), Node.js (Backend), Database (MongoDB)

Tools & Platforms: Git, GitHub, Docker, Devops Tools, AWS (EC2, S3, VPC), Cybersecurity Basics & Tool Usage

Education

Acharya Institute of Technology *Aug 2022 – June 2026 (Expected)*
Bachelor of Engineering in Information Science and Engineering
- CGPA: 8.3

Deeksha KMWA PU College *June 2020 – April 2022*
Pre-University Course (State Board)
- Percentage: 75%

B. P. Indian Public School (ICSE) *June 2010 – March 2020*
Schooling
- Percentage: 80%

Projects

VulnHunter - A Web Security Arsenal *github*
- Full-stack web security scanner identifying vulnerabilities, visualizing results, and generating PDF reports.
- Tools Used: React, Material-UI, jsPDF, Python, FastAPI, requests, BeautifulSoup4.

Emotional Support Companion *github*
- Anonymous AI-powered platform providing empathetic responses through Gemini AI and dynamic prompts.
- Tools Used: FastAPI, Python, httpx, Jinja2, MongoDB, Gemini AI Model, Uvicorn.

AI-Powered Password Security System *github*
- Monitors and flags weak or compromised passwords using AI and custom policies.
- Tools Used: Python, Flask, Scikit-Learn, Flask-CORS, Logistic Regression, Local breach checking.

Cyber WatchDogs – Raspberry Pi-based Intrusion Detection System *github*
- Built a cost-effective IDS with real-time traffic monitoring, honeypot emulation, and threat visualization.
- Tools Used: Raspberry Pi 4, Tshark, Cowrie, Dionaea, Suricata, ELK Stack (Elasticsearch, Logstash, Kibana), Python.

PixelCNN-sfx - Environmental Sound Generation *github*

- Developed a deep learning model for environmental sound generation using PixelCNN's autoregressive architecture, trained on datasets like ENS to produce hybrid nature soundscapes (e.g., rain + birds).
- Tools Used: Python, PyTorch, LibROSA, TorchAudio, NumPy, Google Colab (GPU), Git

MasterFolio - Investment Portfolio Manager *github*

- Developed a full-stack web application for tracking stocks and cryptocurrencies with CRUD operations, real-time price updates (via CoinGecko/Alpha Vantage APIs), and portfolio analytics including profit/loss calculations.
- Tools Used: MongoDB, Express.js, React, Node.js, REST API, Axios, Material-UI

Achievements

- Winner in **Hack-a-League 3.0** under the *Cybersecurity domain* held at Global Academy of Technology.
- Runner-up in **Acharya CTF** hosted by Acharya Institute of Technology.

Certifications

- **Pre-Security Learning Path** – TryHackMe
- **AI & Law** – Lund University (Coursera)
- **GenAI for Everyone** – Fractal Analytics (Coursera)
- **Foundations of Cybersecurity** – Google (Coursera)
- **Machine Learning Introduction for Everyone** – IBM (Coursera)
- **AI For Everyone** – DeepLearning.AI (Coursera)
- **HTML and CSS: Building a Single-Page Website** – Coursera Project Network
- **Introduction to Cybersecurity** – Cisco
- **Introduction to Kali Linux Basics** – SimpliLearn
- **Cybersecurity in Digital Transformation** – Infosys
- **Cybersecurity Overview** – Infosys
- **Technology Trends Overview** – Infosys