

## AADITYA THAPLOO

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### PROFESSIONAL SUMMARY

Master's graduate in Computer Science with hands-on experience in software engineering, cybersecurity, and data analytics. Skilled in designing scalable systems, automating workflows, and improving security posture through penetration testing and compliance monitoring. Passionate about AI/ML, distributed computing, and automation, with a proven ability to deliver solutions that enhance performance, reliability, and business impact.

### PROFESSIONAL EXPERIENCE & PROJECTS

#### **IT & Automation | Logenix International**

**Fairfax, Virginia**

Automated supply chain workflows using Python scripting and workflow automation tools, reducing manual tasks and improving operational efficiency by 30%. Provided Tier-2 technical support including system setup, hardware configuration, troubleshooting, and staff training. Collaborated with cross-functional teams to identify bottlenecks and design scalable IT solutions, ensuring seamless operations and enhanced user satisfaction.

#### **Software Engineer | Virtusa Consulting Services Pvt. Ltd.**

**Mumbai, India**

Conducted penetration tests using the MITRE ATT&CK framework and implemented mitigation strategies to strengthen enterprise security. Monitored organizational security metrics with Security Scorecard and Black Kite, improving compliance posture. Analyzed logs and network traffic via SIEM tools to enhance detection capabilities and reduce potential attack exposure.

**AI Summarizer Tool (Python, NLP, Transformers):** Built a document summarizer reducing reading effort by ~70% with extractive/abstractive methods.

**AI Virtual Assistant (Python, NLP):** Developed an NLP-based assistant with API integration; reduced support workload and resolution times significantly.

**Chef Assistant – AI Recipe Recommender (Python, LangChain, RAG, APIs):** Built retrieval-augmented model integrating nutrition APIs; improved recipe relevance and nutritional insights.

**College Enquiry Chatbot (Python, NLP, Dialogflow):** Automated 80%+ admission queries, saving ~15 staff hours/week and improving student response time.

**Lung Cancer Image Classification (TensorFlow, CNN):** Implemented CNN with preprocessing/augmentation; improved detection accuracy and model generalization.

**WeCare Appointment System (MERN Stack / PHP-MySQL):** Designed a doctor booking platform that streamlined scheduling and enhanced patient experience.

**Additional Projects: Portfolio Website (Next.js, Tailwind, Vercel), Algorithms & Systems Performance (C++, MPI), Branch Prediction Algorithms (C++).**

### SKILLS & INTERESTS

- **Programming & Tools:** Python, Java, C, C++, PHP, TensorFlow, PyTorch, Selenium, JIRA, ONNX, MPI
- **Data & Cloud:** SQL, NOSQL, Hadoop, Spark, Hive, Impala
- **Cybersecurity:** Penetration Testing, Vulnerability Assessment, MITRE ATT&CK, Security Scorecard, Black Kite
- **Systems & Soft Skills:** Linux/Unix, Windows, Problem-Solving, Collaboration, Communication, Leadership

### EDUCATION

**Master of Science in Computer Science**

Purdue University Northwest - Hammond

**Bachelor of Science in Computer Science**

MIT World Peace University - Pune, India

### CERTIFICATIONS

- Google: Foundations of Cybersecurity | Generative AI | Data Science | Automate Cybersecurity Tasks with Python
- Connect and Protect: Networks and Network Security | Tools of the Trade: Linux and SQL