Aviv Nataf

Software Developer

- nataf12386@gmail.com
- 0522464648
- GitHub
- LinkedIn

I am an aspiring software developer with expertise in Python, Java, full-stack development, and experience in AI-driven solutions and cybersecurity.
I am passionate about creating innovative solutions and contributing to impactful projects in software development, with a focus on AI and cybersecurity.

Work Experience

Software Engineer (Student Position) | [Jit security] (Feb 2025 - Present)

- Focused on Python development with extensive use of Docker.
- Wrote and tested features using Pytest.

Computer Programming Instructor | Sunspark College (Jan 2022 - Sep 2024)

- Designed and delivered a comprehensive curriculum on computer and network systems.
- Taught programming languages (VB, Python, Java) to high school students, focusing on real-world applications.
- Mentored 20-30 students per class, helping them develop independent coding projects and problem-solving skills.

Intern | Colman Dev Club Collaboration (Nov 2022 - Jun 2023)

- Worked on JavaScript and React projects, contributing to front-end development and enhancing web applications.
- Participated in workshops, collaborating with peers to develop and deploy practical web solutions.
- Implemented dynamic features for projects, improving user experience and functionality.

Educational Background

Bachelor of Science in Computer Science (March 2022- March 2025)
The College of Management - Rishon LeZion

Accomplishments

Oracle & Colman Hackathon

Specialized in applying data science and big data learning software on the cloud to address agricultural challenges. Utilized advanced analytics and cloud-based tools to optimize processes, **achieving third place in a hackathon competition**.

ANAC 2024 Competition

Participated in the Automated Negotiating Agent Competition (ANAC), an international AI competition focusing on negotiation strategies in multi-agent systems. Researched and implemented agent strategies using Python, algorithms, and statistical modeling, gaining hands-on experience in AI, machine learning, and decision-making algorithms.

Projects

Deceptify | Final Project for Degree in Computer Science

• Deceptify is an AI-driven project focused on conducting social engineering attacks using generative AI content, like deepfakes, to enhance organizational preparedness against evolving digital threats.

- **Technologies:** Python, Flask, PyTorch, Hugging Face, fine-tuning pre-trained models, backend server implementations.
- **Role:** Led AI research and integration, developed the backend with Flask, and built the core RAG agent for conducting real-time attacks using Zoom and Telegram with voice clone models.
- **Results:** Deceptify demonstrates innovative AI-driven social engineering attacks and serves as a key example of AI integration in cybersecurity projects.

Devops final project course

- Containerized the application with Docker Compose, creating four images, including a secure reverse proxy on port 80.
- Configured infrastructure using Ansible playbooks for AWS EC2 instances, handling provisioning, OS configuration, dependencies, and secure networking.
- Automated CI/CD with GitHub workflows, integrating code scans and Docker image deployment.
- Conducted comprehensive testing with Selenium, covering unit, end-to-end, scalability, performance, and browser compatibility tests.
- Successfully deployed the containerized application on AWS EC2, ensuring secure and efficient production-ready performance.

Market Ordering Assistance (Independent Project)

- A social media platform with AI assistance for seamless market orders from leading companies.
- **Technologies:** Python, Flask for web development, SQL for user management, Redis for caching, and finetuning an intention classifier using a unique dataset.
- **Role:** Sole developer responsible for the entire project, from concept to implementation.
- **Key Achievements:** Built a complete system that assists users with market orders, leveraging AI to streamline and personalize the experience.

JavaFX Book Scrabble Game

- An interactive, book-themed Scrabble game that can be played online between users.
- **Technologies:** JavaFX for game logic and network capabilities.
- **Key Achievements:** Successfully implemented an online multiplayer mode, enabling real-time gameplay over the Internet.

Certification/Short Courses

- Certified Deep Learning – Udemy
- Certified Machine Learning – Udemy
- Certified Cybersecurity & Ethical Hacking – Udemy
- OWASP Top 10 WebGoat Assignments Completion

Languages

- English (Fluent)
- Hebrew(Proficient)

Skills

- **Programming Languages:** Python, Java, C, C++, JavaScript, Visual Basic.
- **Web Technologies:** HTML, CSS, JavaScript, jQuery, Node.js, Flask.
- **Databases:** MongoDB, SQL, Redis.
- **Tools and Platforms:** Linux, Kali Linux, Docker.
- **DevSecOps & Automation:** CI/CD pipelines with integrated security, Git Actions workflows, Docker.
- **Data Science & AI:** Data Mining, Machine Learning, Deep Learning, PyTorch, Hugging Face. Version Control: Git, GitHub, GitLab.