Ofek Harpaz

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Outstanding software engineer with two years worth of experience in python development. Autodidact, motivated, responsible, with analytical mind and true love to the profession. Likes to investigate, analyze and solve problems and challenges.

WORK EXPERIENCE

Software Developer - 634AI / 2022 − 2024

Python Engineer − Autonomous Forklift:

- Developed a sophisticated state machine design pattern for an autonomous forklift.
- Successfully refactored a complex codebase into maintainable and readable code.
- Integrated a **pure pursuit** algorithm to achieve smooth and accurate path following.
- Incorporated a **pallet detection model**, empowering the forklift to navigate autonomously towards identified pallets.
- Combined data from various sensors (Lidar, IMU, Encoder) into high level programming behavior.
- Worked in **Linux** and **Docker**/**Kubernetes** environment to ensure seamless deployment.
- Maintained code quality standards using **SonarQube** and **Pytest**, ensuring the detection and resolution of code issues and vulnerabilities.
- Proficient in **GitHub** for version control, managing repositories, and facilitating efficient code reviews.
- Traveled to Japan for on-site bug resolution, ensuring the smooth deployment of critical fixes and enhancing system stability.

Full Stack Developer − Vue, Nodejs:

- Took charge of a critical code repository, navigating through an undocumented codebase, ensuring continuous development.
- Led architectural refactoring, simplifying code and enhancing development efficiency.
- Collaborated within a **microservices architecture**, contributing to the development and maintenance of scalable and modular software solutions.

EDUCATION

Azrieli College of Engineering - B.Sc, Software Engineering

2018 - 2022, Grade Average: 93   Jerusalem

Relevant courses: Advanced data structures and algorithms; Applied computer communication; Machine learning; Parallel Programming

SKILLS

Programming Languages:

Python; Vue; Node.js; JavaScript; HTML/CSS