Anna Niedzialek

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Education

San Jose State University — San Jose, CA
Bachelor of Science in Computer Science, GPA: 4.00 — *Aug. 2024 – May 2026*

Military University of Technology — Warsaw, Poland
Engineering Degree in Biocybernetics and Biomedical Engineering — *Sept. 2019 - Feb. 2023*

Experience

Software Engineer Intern — June 2024 – Aug. 2024
Hewlett Packard Enterprise — *Warsaw, PL*

- Consolidated OpenAI API keys from 133 to 3 keys. Improved OpenAI vendor management for the following three aspects:
  - **Developer Happiness:** Reduced secret management costs for general AI developers
  - **Financial Cost Tracking:** Optimized clear cost segmentation for CAC vs R&D vs CoGs
  - **Guardrail:** Monitored guardrail under centralized OpenAI vendor control
- Gained proficiency in writing/maintaining production-quality code
- Utilized GitHub for code collaboration, review, and source control through cross-team cooperation
- Engaged continuous deployment(CICD) to efficiently ship change to production, and attended weekly standup to practice Agile development
- Applied Datadog to monitor production system health, used PrestoSQL tool to analyze system and product features

Engineering Intern — June 2022 – July 2022
Arthrex — *Warsaw, PL*

- Assessed data using C++, Excel, and MATLAB, enhancing system reliability
- Prepared documentation, and technical reports with C++-based performance simulations promoting system optimization for medical users for the platelet-rich plasma projects
- Partnered with designers and engineers to refine user experience (UX) for content visualization in healthcare applications

Projects

Motion AI | *Java, Python, AI/ML, MediaPipe* — Aug. 2024 – Present

- Developed an AI-powered application to examine real-time movements and provide feedback to users
- Achieved 95% accuracy in pose estimation by implementing Dynamic Time Wrapping (DTW)
- Implemented algorithms using OpenCV and YOLO7 to track motion and identify posture deviations
- Optimized algorithms to provide real-time feedback (¡500ms latency), improving live media performance tracking

Personal Website Portfolio | *JavaScript, CSS3, HTML* — Match 2025 - April 2025

- Built and styled a responsive personal portfolio website showcasing projects, skills, and testimonials using modern HTML5 and CSS3 practices
- Implemented dynamic components using vanilla JavaScript, Swiper.js for testimonials, CountUp.js for live statistics
- Customized UI/UX features by applying consistent design system with reusable CSS components

Cinema Management System | *Java, JavaFX, Object Oriented Programming* — Aug. 2024 – Oct. 2024

- Developed a cinema management system by applying OOP knowledge to real-world challenges
- Collaborated with team members using GitHub ensuring streamlined teamwork
- Developed a user-friendly interface for managing navigation and booking workflows, optimizing UX with JavaFX
- Conducted 8 JUnit Tests to ensure code reliability, providing code coverage and prompt bug identification

Technical Skills

Programming Languages: Java, Python, C/C++, JavaScript, Haskell, Scheme, SWI Prolog
Developer Tools: Github, Ubuntu, Linux, Unix, VS Code, MATLAB, Datadog, PrestoSQL, JUnit
Frameworks: OpenCV, YOLOv7, AI/ML, JavaFX, HTML, CSS
Extra-curriculars: SVIC Finalist, SolidEdge Certificate, NCAE CyberGames, 2025 SJSU President's Scholar Award, Summa Cum Laude Honors in CS
Languages: English, Polish, Spanish, Russian