Filip Kujawa

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EDUCATION

University of Illinois at Urbana-Champaign   Urbana, IL
Bachelor of Science in Computer Science & Physics
- Relevant Coursework: Computer Architecture, Data Structures, Discrete Structures GPA: 4.0

Mountain View High School   Mountain View, CA
High School Diploma, Computer Science Java CTE Pathway Completed, GPA: 3.9

EXPERIENCE

AI Software Engineering Intern   Summer 2024
Horizon 3 Venture Studio   *Los Altos, CA*
- Contributed to the development of AI-powered phone customer service platform for Prudential Financial, improving customer experience and reducing response times
- Developed automated testing system using large language models and Selenium, reducing manual testing time by 80% and improving test coverage
- Implemented custom LLM script to analyze historical customer calls, extracting key insights and patterns to optimize future customer interactions
- Built reliable Q&A system using vector embeddings and retrieval augmented generation (RAG), achieving 95% accuracy in customer query responses

Machine Learning Lead   2021 − 2025
FRC 971: Spartan Robotics   *Mountain View, CA*
- Led machine learning initiatives for competitive robotics team, mentoring 25-student JV team in electrical, mechanical, and software engineering skills
- Designed and implemented autonomous routine that won the 2023 Autonomous Award at the FRC World Championship, competing against 600+ international teams
- Developed real-time object detection models and computer vision algorithms in C++ and Python to estimate pose and location of game pieces with 99% accuracy
- Built full-stack, offline-enabled scouting application using Go, Javascript, Angular, Tableau, and PostgreSQL, enabling data-driven strategic decision-making.
- Programmed superstructure control loops and state machine for 2024 robot, implementing catapult auto-aiming system with field localization that improved scoring efficiency by 40%

Summer Technology Apprenticeship Program   Summer 2023
Google   *Mountain View, CA*
- Participated in selective technology apprenticeship program, gaining hands-on experience with Google's software development practices and tools
- Collaborated with Google engineers on real-world projects, applying computer science fundamentals to solve real-world challenges

PROJECTS

ScheduSwift | *Genetic Algorithm, Python, React, Typescript, Git*
- Developed custom genetic algorithm to generate conflict-minimized schedules for K-12 schools
- Increased administrative efficiency by automating master scheduling process, reducing manual work from 50 hours to 5 minutes (99.8% time reduction)
- Designed and built modern full-stack web application for administrators to efficiently fine-tune schedules, assign teachers, and export final schedules
- Implemented real-time schedule optimization with constraint satisfaction algorithms, handling complex scheduling requirements for 2500+ students