Benjamin Kleyner

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EDUCATION

Carnegie Mellon University — August 2023 - December 2026

Bachelor of Science in Computer Science, Minor in Computer Systems, GPA: 3.9/4

Relevant Coursework: Principles of Imperative Computation, Parallel and Sequential Data Structures and Algorithms, Introduction to Computer Systems, Algorithm Design and Analysis, Introduction to Machine Learning

PROFESSIONAL EXPERIENCE

Insitro - South San Francisco, CA — May 2024 - August 2024

Software Engineering Intern

- Reduced repetitive notifications by 45% through Python implementation of intelligent filtering algorithm
- Collaborated with automated science teams to gather specifications for new experimental workflow, increasing productivity by 25%
- Achieved a 40% reduction in processing time of genome sequencing data through optimization of AWS data pipelines and parallel processing techniques
- Implemented AWS OpenSearch index, reducing biological compounds database query time by 75%

Store2Door Inc. - Burbank, CA — May 2019 - January 2021

Software Engineering Intern

- Spearheaded effort to improve redundancy and cost of customer data storage, resulting in 100% increase in redundancy and 50% decrease in off-site storage costs
- Improved delivery efficiency by leveraging Google Maps API features to create delivery routes, reducing gas reimbursement costs by over 15%
- Designed QC application for grocery delivery orders, boosting customer reviews by 1.5 stars over 6 months
- Drove redevelopment of internal sales history tracking system resulting in 20+ new features, 20% reduction in save times, and 25% reduction in load times

PROJECT EXPERIENCE

Sky Shepherd - Pittsburgh, PA — February 2024

Computer Vision Engineer

- Developed UAV-based system for real-time crowd recognition and dynamic navigation at large outdoor events, achieving top 5 placement at Carnegie Mellon's TartanHacks 2024 Hackathon
- Applied innovative techniques to estimate crowd density and shape using convex hulls, achieving a workable area coverage estimate with 85% accuracy
- Developed a dynamic cost map for real-time, hyperlocal navigation, decreasing pathfinding time by 40%

LEADERSHIP EXPERIENCE

Alpha Epsilon Pi, Alpha Kappa - Pittsburgh, PA — November 2024 - Present

Treasurer

- Managed annual budget of $160,000 to organize and sponsor activities for 60+ members
- Coordinated with chapter private chef to sponsor 130 meals every semester
- Redeveloped cost tracking solution improving estimated budget outlook accuracy by 50%

ADDITIONAL EXPERIENCE

- Technical Skills: Python, C, C++, Java, R, React, TypeScript, AWS, Google Maps API, Go, SQL
- Languages: English, Russian, Spanish
- Personal interests: AI-driven drug development, algorithms and computational complexity, distributed systems and parallel computation