Benjamin Kleyner

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EDUCATION

Carnegie Mellon University   August 2023 - May 2027

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

Amazon Web Services - Arlington, VA   May 2025 - August 2025

Software Development Engineering Intern

- Designed and implemented an AWS Lambda and S3 based content freshness detection system for regulatory compliance, cutting manual updates by 90% and automating biweekly sync with 100+ sources
- Boosted document repository coverage by 25% using Amazon Bedrock's Agentic AI to automatically find and incorporate new compliance documents across AWS content
- Developed PDF and HTML parsers incorporating deduplication and hashing techniques with 97% accuracy in detecting changes within extensive documents
- Partnered with internal stakeholders across 3 cross-functional teams to define SLAs, deployment schedules, and alerting thresholds for production-grade content freshness checks

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%
- Attained a 40% reduction in processing time of genome sequencing data through optimization of AWS data pipelines and parallel processing techniques
- Implemented AWS OpenSearch index, speeding up biological compounds database query time by 75%

PROJECT EXPERIENCE

EmBrnt - Pittsburgh, PA   February 2025

Software Engineer

- Built a real-time fire prediction system using a UNet and PointNet++ particle filter, achieving 87% accuracy on simulated satellite data, winning 1st place out of 176 teams at TartanHacks 2025
- Designed SPAGHETTI, a novel decentralized ergodic planner improving agent overlap by 42% vs. baseline
- Coordinated a 4-person team over 24 hours, delivering an end-to-end prototype under real disaster response constraints
- Deployed a full-stack web UI with live map updates and agent coordination, supporting 10+ agent types in simulation

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