Micah Weitzman

39 Fair Oaks St. Apt 102, San Francisco, CA 94110
(610) 724 2621 · weitzman.micah@gmail.com
micahweitzman.com

EDUCATION

University of Pennsylvania, School of Engineering and Applied Sciences   Philadelphia, PA
Bachelor of Science in Engineering (B.S.E) - Summa Cum Laude   May 2022
Major: Computer Engineering
Minor: Mathematics, Computer Science
Cumulative GPA: 3.87/4.00
Awards: Dean's List 2018-2019 & 2021-2022, Dept. of Germanic Languages and Literatures Yiddish Arbiter Ring Prize
Relevant Coursework: Distributed Systems, Compilers, Operating System, Databases, Networked Systems, Circuit-Level Modeling, Embedded Devices, Data Structures & Algorithms, Discrete Math, Calculus I/II/III/IV, Algebra
Extracurricular Activities: IEEE Eta Kappa Nu Engineering Honors Society Lambda Chapter, Penn Tutoring Center, Penn Climbing Club, Tau Epsilon Phi Fraternity Rho Chapter, Computer Science Teaching Assistant

PROFESSIONAL EXPERIENCE

Qualcomm – GCAD   Santa Clara, CA
Software Engineer   September 2022 – Current
- Developed robust software tools for next generation Snapdragon EDA flows.
- Designed and executed regression suite to monitor KPI and recreated EDA flows across entire CAD team.

Software Engineering Intern   June-August 2021
- Developed data driven approach for advanced Clock Tree Synthesis and clock hierarchy design with ML algorithms.
- Designed and wrote internal tool in Python to automate digital design workflow.
- Generated graphical representation for key metrics of SoC clock tree timing.

University of Pennsylvania – Center for Neural Engineering and Therapeutics   Philadelphia, PA
Research Intern – Litt Lab   June-August 2020
- Investigated state of the art Natural Language Processing Machine Learning models and implemented initial experiments.
- Improved Data Augmentation techniques on SQuAD style dataset to be implemented on epilepsy patient datasets.

University of Pennsylvania – Penn Undergraduate Research Mentorship   Philadelphia, PA
Research Intern – Pikul Research Group   May-August 2019
- Investigated the effect of electrolyte makeup on the mechanical properties of electrodeposited thin nickel films.
- Used trends in literature to investigate new additives to improve mechanical toughness of films.
- Developed automated software tools to synthesize data and produce meaningful graphs of tensile strength results.

Midwest Campers Inc.   Sugar Grove, PA
Deputy Director of Experiential Education   June-August 2018
- Coordinated a group of 20 staff members daily through running 12 different educational stations.
- Managed scheduling and communication between staff members and upper-level management.
- Ensured the logistics and management of 400+ glassblowing, blacksmithing, and woodshop projects.

PUBLICATIONS

Extracting Seizure Frequency From Epilepsy Clinic Notes: a Machine Reading Approach to Natural Language Processing, Kevin Xie et. al, Journal of the American Medical Informatics Association, 2022, https://doi.org/10.1093/jamia/ocac018

TECHNICAL SKILLS

Software: Python, C/C++, Rust, React, Typescript, OCaml, ReactNative, SQL, MongoDB, Haskell, Java, Assembly, LLVM, Git, Linux/Bash, Test-Driven Development, Functional Programming, Object Oriented Design
Projects:
- Developed application to covert Slow Scan Television (SSTV) audio to PNG image files. (Rust)
- Developed compiler for Oat programming language to x86 assembly with LLVM. (x86 assembly, LLVM, OCaml)
- Created a HTTP web server with email (SMTP/POP3), web storage and distributed backend from scratch. (C/C++)
- Developed and deployed mobile and web-based application to connect grocery stores with surplus food to customers. (Typescript, React, ReactNative, Express, MongoDB)
- Developed a Full Stack JavaScript app for displaying aggregate statistics for major league sports (React, Express, MongoDB)

Certification: FCC Amateur Radio License General Class – Callsign KC3SQY

LEADERSHIP EXPERIENCE

University of Pennsylvania   Philadelphia, PA
Undergraduate Teacher's Assistant – CIS240 Intro to Computer Architecture   August-December 2021
- Held weekly office hours for students and answered questions relating to coursework.

Undergraduate Teacher's Assistant – MCIT595 Computer Systems Programming   January-May 2022
- Helped develop courses material for graduate level course. Held weekly office hours for students and recitation session.

Penn Tutoring Center - Tutor   October 2019-May 2020
- Led multiple hour-long tutoring sessions for Calculus I/II, Electricity & Magnetism, and Computer Science.

PERSONAL PROFILE

Languages: Hebrew (fluent), Yiddish **Interests:** Programming, Rock Climbing, Billiards, Bouldering, Hiking, Guitar, Math