

Emanuel Z. Kuflik

Phone: (914) 255 3467 | Email: mannykuflik@gmail.com

EDUCATION

University of Pennsylvania, Philadelphia, PA

Sept 2016 - May 2021

Bachelor of Science in Computer Engineering, Minor in Mechanical Engineering, graduated May 2021

Relevant Coursework:

Computer and Information Science: Modern Operating Systems, Embedded Real-Time Software, Advanced Software and Algorithms, Programming Languages and Techniques, Mathematical Foundations of Computer Science, Computer Systems and Architectures, Professional Software Design, Computer Organization and Design

Electrical and Systems Engineering: Digital Audio Manipulation, Electrical Circuits and Systems, Embedded Systems Laboratory, Circuit-level Modeling and Optimization, Networked Systems, Internet and Web Systems

Mechanical Engineering and Applied Mechanics: Mechanical Design and 3D Modeling, Statics and Strength of Materials, Mechanical Design Laboratory, Integrated Product Design, Control for Autonomous Robots

iXperience, Cape Town, South Africa

May 2018 - July 2018

Intensive full-stack app development study abroad course

Ashreinu, Bet Shemesh, Israel

Sept 2016 - June 2017

Gap year

Studied: philosophy, existentialism, theology

Community service: food pantry, working with kids at risk, building shelters for the homeless

EMPLOYMENT

Pagame, Santa Cruz, Bolivia

May 2020 - Sept 2020

Core Technology Engineer - Remotely led a small team developing the [Pagame](#) payment app in Android Studio from scratch. Set up the payment integration API and configured a SQL database to create the core functionality of the app.

Brahman Capital Corp, New York, New York

June 2020 - Sept 2020

Software Project Lead - Led a solo project creating a custom stock sorting executable for the hedge fund utilizing S & P CapitalIQ's API and XpressFeed solutions. Built a standalone program with Java connected to a MySQL database.

Real Friend AI, New York, New York

July 2019 - Sept 2019

Web developer/Artificial Intelligence Analyst - Developed a Node.js web service concentrating on optimizing search preferences, web-scraping, admin side of the platform performing immigrations with MongoDB. Managed the AI chat bot, analyzing responses, search queries, and interactions with users. Collected and processed data for Machine Learning.

Invictus Capital, Cape Town, South Africa

June 2018 - Aug 2018

Software Engineer Intern - Developed [Python program](#) for Blockchain watching service that simulated 10,000 randomized crypto-transactions on ethereum and bitcoin test networks, stored results to a SQL database, displayed transaction details to a web application using Flask and Docker.

EXPERIENCE

Technical Projects

[ReFlex: Esports Training Tool](#) - Senior Design Project. Reflex training tool incorporating software and hardware feedback in the forms of eye-tracking and EMG sensors. Built with Unity, C#, React, MySQL, AWS, hardware integrated w/ Arduino.

[PennOS](#) - Fully operational OS built in C, containing a file system, CPU scheduler, and its own custom shell.

[PicSoul](#) - Wooden-tile art display that runs on a raspberry pi, written in C and Python, includes 14 servo motors, 2 stepper motors, and a camera with facial recognition software using OpenCV.

Technical Skills

Programming - C, C++, C#, Java, Javascript, Python, Unity, AWS, Hadoop, HTML, CSS, SQL, OCaml, Full-Stack Development, Node.js, Angular, React, Assembly

Electrical - Circuit Design, PCB Design, Power Management, Arduino, Mbed, BeagleBone, Digital Audio, Band-Pass Filters, Wifi Integration, Sensor and Motor Integration, Robotics

Mechanical - SolidWorks, Rhino 3D, Laser-Cutting, 3D-Printing, Gear Mechanisms

Languages - Fluent in Hebrew

EXTRACURRICULARS **The Wharton Undergrad Entrepreneurship Club** - VP of Product Management,

Penn ADAPT - Member, **Zeta Beta Tau Theta Chapter** - Member, Organizer in philanthropy events, Lead Risk Manager