

Everett Key

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TECHNICAL SKILLS & EXAMS

Technical Skills: Python [Pytorch, Numpy, Matplotlib, Pandas] | SQL | Java | C++ | JavaScript | Matlab | R

Exam: Series 65 Uniform Investment Advisor Law Exam Passed

WORK EXPERIENCE

Home

2022 – Present

Household Financial Advisor & Accountant

San Mateo, California

- Contributed 50% of my genetic sequence to expand team size by 50% in 10 months. In other words, I became a dad.
- Expanded property management portfolio by 100%. Create monthly financial reports using GAAP.

Meta Reality Labs

2022 – 2023

Software Engineer

Burlingame, California

- Created fusion algorithm API that improves the modularity and maintainability of fusion capture testing and development.
- Reduced camera capture time by 300ms during a production event; expended testing tools for efficient incident investigation.

United Nations Development Programme

2021

Fullstack Engineer Intern

New York, New York

- Created a website. Let users submit farmland data on an interactive map. Allowed us to correlate cocoa farming and deforestation.

ROC Military Police

2019 – 2020

Welfare Officer

New Taipei City, Taiwan

- Managed welfare spending for the company. Planned and financed funding of 160 personnel's supplies and transportation.
- Graduated top of the class with rifleman and machine gunner training.

FullRing Technology, Trackwork Construction & Design

2019 – 2020

Technician & Project Manager & Software Engineer

Taichung City, Taiwan

- Established a custom-built railway assessment system which decreased both costs and set up time by 95%.

PROJECTS

QQ Browser Textbook RSA attack & fix, Password-Based Authenticated Encryption

2021

- Exploited QQ browser's hybrid encryption with CCA2, proposed a better scheme using OAEP padding and sender verification.
- Investigated insecure code on StackOverflow, demonstrated its vulnerability to brute-force and padding oracle attack.
- Improved SO answer's security by incorporating message authentication code and PBKDF to the encryption scheme.

Minitorch (Python, CUDA)

2020

- Developed a tensor class for training both feedforward and convolutional neural networks on CPU and GPU backends.
- Implemented the training workflows to include backpropagation featuring GPU acceleration using Numba and Cuda.

EDUCATION

Cornell Tech | Cornell University

August 2020 - July 2021

Master of Engineering

New York City

- GPA: 3.8 / 4.0 | Notable Coursework:** Machine Learning Engineering | Intelligent Autonomous System | Computer Vision | Interactive Device Design | Bio-Inspired Multi-Agent Systems
- Awards:** Cornell Tech ECE Merit Scholarship

University of Washington

September 2016 - June 2019

B.S. in Mechanical Engineering

Seattle

- GPA: 3.32 / 4.0 | Notable Coursework:** Computer Programming | Data Structures and Algorithms | Artificial Intelligence
- Awards:** Dean's List 2018, 2019 | J. Robert Oppenheimer Scholarship | UW Purple and Gold Scholarship | LANL Scholarship