Ike Kilinc

Education

Carnegie Mellon University | Pittsburgh, PA | Expected Graduation May 2021
M.S, B.S. in Electrical & Computer Engineering
- GPA (Cumulative): 4.00 MS / 3.59 BS
- College of Engineering Dean's List: F16, S17, S18, S20

Relevant Coursework
- Distributed Systems (15440), Machine Learning (10601), Building Reliable Distributed Systems (18749), Operating Systems (15605)*

Extracurricular
- HKN, CMU ECE Honors Society (Member, Sep 2018 – Present)
- IEEE (Member, Sep 2018 – Present)
- Habitat for Humanity (Volunteer, Sep 2016 – Present)
- Engineering Student Council (Member, May 2017 – May 2020)
- CMU Office of Orientation (Orientation Councilor, Aug 2020)

Skills

- Golang
- C/C++
- Python
- Java
- HTML/CSS/JS
- Reactjs/Redux
- Ruby/Django

Tools
- AWS, Azure
- Git, Github, Phabricator
- MATLAB, LaTeX
- Airflow

Professional Experience

Carnegie Mellon University | Pittsburgh, US | *Various* Positions | **June 2015 – Present**
- **HyperResolution on the Edge** *Graduate Student Researcher*: Leading research of Hyper Resolution mobile applications on a Cloudlet-centric Edge Computing platform with Prof. Mahadev Satyanarayanan's research group! Exploring applications from Deep Neural Networks to Successive Approximation.
- **MoonRanger Lunar Robotics** *System Health Autonomy Co-Lead*: Programmed autonomous fault monitoring and SysExecutive report generation for a small, semi-autonomous rover for the polar lunar surface scheduled to launch in 2022! Worked in the Autonomy Software sub-team with Prof. Red Whittaker.
- **Distributed Systems (15-440)** *Teaching Assistant*: Led recitations, held office hours, and designed and assessed exams/problem sets/design docs to teach techniques for designing and implementing functional, usable, and scalable distributed systems! Concepts covering locking, concurrency, caching, prefetching, scheduling, and network communication.
- **Fundamentals of Programming (15-112)** *Teaching Assistant*: Taught programming, computational thinking, & large-scale project design using Python to 500+ students! Covering range of material, from efficiency analysis to object-oriented programming to recursion.
- **CMU Smart Infrastructure Institute** *Researcher*: Launched and led research venture on improving the energy efficiency of low-income housing by partnering with Habitat for Humanity and CMU Civil Engineering doctoral students! Published findings at 2017 Lean & Computing in Construction Congress.

Abnormal Security | San Francisco, US | *Software Engineering Intern* | **May – Aug 2020**
- Developed a variety of analytics, data pipelining, and automation tools for the Account Takeover dev team, ranging from building Airflow automation DAGs for POV clients to generating new data features for NLP models.
- Frontend React development of new Account Compromise detection hub now used daily by over 50% of the company.

Chan Zuckerberg Initiative | Redwood City, US | *SWE Intern* | **May – Aug 2019**
- Developing active user session tracking, authentication, and invalidation framework for a software-enabled K-12 education system currently being integrated into 350+ US public schools.
- Designed and implemented frontend React UI for the platform's first user-facing Security page.
- Coordinated all critical pathway CQ assurance with remote testing team in India.

Cisco Systems | San Jose, US | *Software Engineering Intern* | **May – Aug 2018**
- Fully rebuilt a full-stack, AWS-hosted cloud analytics platform for testing and evaluating the accuracy of the Connected Mobile Experiences team's industry-leading, WiFi-operated indoor localization systems. Worked with Python for backend analytics, Node.js for serverside backend ops, and React.js and Redux on the frontend.

Campus Engagement

Human Capital | *Carnegie Mellon Campus Director* | **Jan – Dec 2019**
- Leading team of undergraduate & graduate innovators in recruiting tech talent for early-stage startups.

Engineers Without Borders | *CMU Chapter President* | **Jan 2017 – 2019**
- Oversaw all chapter operations to implement sustainable engineering solutions in developing nations.
- From prototyping autonomous drone software for agricultural monitoring in Rwanda to installing solar street lamps in Zimbabwe.

Projects

InFrame (ECE CAPSTONE), *May 2020*
- An intelligent, motorized photography assistant that detects and tracks user-selected targets across 3D space
- Utilizing YOLOv2 trained on the COCO dataset for object detection and Lucas Kanade methods for target tracking

MirrorX (Build18), *Jan 2018*
- Smart mirror with facial recognition security through Microsoft Cognitive Services
- Displays weather, major news headlines, daily meetings from Google calendar, etc.


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