

Everett Key

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Website: EverettKey.com | LinkedIn: [Everett-Key](https://www.linkedin.com/company/everett-key) | GitHub: [EverettKey](https://github.com/everettkey)

TECHNICAL SKILLS

Languages: Python | Swift | C++ | SQL | Java | PHP | JavaScript | HTML | Matlab | R
Tools/Environment/Standards: Linux | Jira | Git | HTTP/HTTPS | PowerShell | AOSP | ROS

WORK EXPERIENCE

Walmart eCommerce, CI/CD **03/2024 – Present**
Software Engineer Sunnyvale, California

- Saved 15% PR job time and 10% node usage for both iOS and Android by implementing remote test result cache.
- Orchestrate the release of Walmart: Shopping & Savings android app to 30+ million users.
- Manage and optimize CI/CD infrastructure of 200+ machines, accommodating 300+ pull requests and 1000+ jobs daily.
- Drive CI time saving and observability initiatives across multi-platform organizations.
- Oncall and troubleshoot product deployment incidents daily with less than 1 hour SLA response time.

Meta Reality Labs, Wearable Camera **01/2022 – 01/2023**
Software Engineer Burlingame, California

- Designed a fusion system library serving 6+ in-house or 3rd party fusion algorithms to capture quality images.
- Developed an automated testing suite that evaluates camera capture pipeline on virtual machines and/or physical devices.
- Triangulated and eliminated 300ms of capture latency using said testing suite during a production event.
- Won an internal hackathon out of 10 teams by inventing a new way of taking panoramas with wearable cameras.

FullRing Technology, Trackwork Construction & Design **07/2019 – 08/2020**
Software Engineer Taichung City, Taiwan

- Built a custom railway assessment sensor system with software that has 90% less cost and overhead compared to its predecessor.
- Developed a sensor controlling UI/UX that also provides aerial visualization of railtrack health maps.
- Studied product feasibility by field testing sensor through 55 km of mountain railway from sea level to 7000 feet.

Los Alamos National Laboratory, National Security **06/2014 – 09/2018**
Data Researcher & Software Engineer Los Alamos, New Mexico

- Developed and evaluated traffic monitoring algorithms achieving 95% accuracy under strict security and resolution constraints.

PROJECTS

Minitorch (Python, CUDA) **08/2020 – 12/2020**

- 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.

Autonomous Truck Mapping and Tracking (Python, Linux, ROS) **01/2019 – 07/2019**

- Utilized Simultaneous Localization and Tracking (SLAM) and Adaptive Monte Carlo Localization (AMCL) to develop Paccar (truck company)'s first spatial localization and mapping pipeline using the Robot Operating System (ROS) on Linux.
- Overcame scarce landmarking to generate Paccar's initial test track map using LIDAR imaging.

EDUCATION

Cornell Tech | Cornell University **2020 - 2021**
Master of Engineering New York City

- **Notable Coursework:** Computer Networking | 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 **2015 - 2019**
B.S. in Mechanical Engineering Seattle

- **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