

SAMUEL RUSSELL

New York, NY | Current October 2024

WORK

Meta / Facebook 2019 - 2024

AR Input & Interactions (CTRL) Research ML Infra

- 2023 - 2024 IC7 / Tech-Lead
 - EMG modeling technology shown in 2024 Orion Neural Wristband demo
 - ML research infra for 300+ Researchers, 1000+ internal collaborators, \$12mm/yr spend
 - Spanning & migrating across AWS & Meta ecosystems
 - Responsible for privacy, scale, reliability, & efficiency
 - Policy and Strategy lead for Design process, Reliability/SEVs, Oncall & Support policies
- 2021 - 2023 TLM / Tech-Lead-Manager
 - Managed 3-8 direct reports, hiring, career & performance
- 2019 - 2021 IC6 / Tech-Lead
 - Implementation and coordination of major infra projects
 - ML infra for data collection, refinement, training, analysis, and demo distribution

CTRL-Labs 2018 - 2019

- Cloud infra lead for AWS-based ML research platform supporting EMG-based neural interface research, demos, developer kits
- Startup (team & tech) acquired by Facebook in Nov 2019 for ~\$0.5-1bb

Uber, Senior Software Engineer 2014 - 2018

- Observability (SRE)
 - In-House Metrics-Based Monitoring, Alerting, and Dashboard Systems
- Autonomous Vehicle Infrastructure
 - Cluster Job Scheduler and ES Optimizations, ML Model Storage Systems
- Core Services
 - Monolith to SOA migration. Designing high-scale User Service.
 - Multi-DC design & bring-up, security & fraud work.
 - Oncall and Outage mitigation. Triage and root-cause analysis
 - DB optimization & migrations from Postgres -> NoSQL Schemaless

Nvidia, Software Engineer 2012 - 2014

Graphics Performance-Power

- Algorithm design, implementation, and testing for multi-component SOC power scaling
- Test automation frameworks and data visualization
- Chip and Platform software bring-up and validation, power measurement configuration
- Special projects team for critical demos, design-wins, and customer release issues

EDUCATION

Carnegie Mellon University Pittsburgh, PA 2011 / 2012

BS & MS in Electrical and Computer Engineering

Minors: Neural Computation, Biomedical Engineering

SKILLS

Python, Go, C/C++, Javascript/Typescript, Java, others as needed

AWS, Databases (SQL and No-SQL), APIs, Services, Docker, Kubernetes

Machine Learning, Pytorch/Tensorflow, numpy/Scikit, data collection/processing/analysis

HONORS

Uber 2017 Hackathon Winner

Eta Kappa Nu Honor Society

CMU Dean's List

Boy Scouts of America: Eagle Scout & SPL

PROJECTS &

Android App & Game Design

Electro-Luminescent Wire Art

HOBBIES

Live SF Transit Mapping

DAF Foundation work