

SAMUEL RUSSELL

New York, NY | Current March 2024

WORK

Meta / Facebook, TLM2, IC7 2019 - 2024

AR Input & Interactions (CTRL) Research Infra

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

CTRL-Labs 2018 - 2019

- Cloud infra lead for 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 in Neural Computation, Biomedical Engineering

SKILLS

Python, Go, C/C++, Typescript, Java, others as needed
AWS, Databases (SQL and No-SQL), APIs, Services, Kubernetes, Pytorch/Tensorflow

HONORS

Uber 2017 Hackathon Winner
Eta Kappa Nu Honor Society
CMU Dean's List
Boy Scouts of America: Eagle Scout & SPL

PROJECTS & HOBBIES

Android App & Game Design
Electro-Luminescent Wire Art
Live SF Transit Mapping
Bicycle Enthusiast & Advocacy
DAF Foundation work