

SAMUEL RUSSELL

New York, NY | Current April 2025

WORK

Stealth Generative-AI Startup, Principal ML Engineer Jan-April 2025

- Working on AI Image generation adherence, AI Infrastructure for multi-model IG systems
- Competitor release triggered a company-pivot that diverged from my interests

Meta / Facebook 2019 - 2024

AR Input & Interactions (CTRL) Research AI/ML Infra

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

CTRL-Labs 2018 - 2019

- Cloud infra lead for AWS-based AI/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 Research
 - Cluster Job Scheduler and database optimizations
 - Developed AI/ML asset management systems
- Core Services
 - Monolith to SOA migration. Designing high-scale services, Multi-DC design & bring-up
 - Oncall and Outage mitigation lead. Triage and root-cause analysis
 - DB optimization & migrations from Postgres -> NoSQL Schemaless

Nvidia, Software Engineer 2012 - 2014

- Graphics Performance-Power team, Chip and Platform bringup/validation, Special projects
- Algorithm design, implementation, and testing for multi-component SOC power scaling

EDUCATION

Carnegie Mellon University Pittsburgh, PA 2011 / 2012

BS & MS in Electrical and Computer Engineering
Minors: Neural Computation, Biomedical Engineering

SKILLS

AI/ML infra, Pytorch/Tensorflow, mlflow/wandb, Sagemaker, numpy/Scikit, Jupyter
Expertise in GPU inference and training, data collection/processing/analysis
Python, Go, C/C++, Javascript/Typescript, Java, others as needed
AWS, GCP, Databases (SQL and No-SQL), APIs, Services, Docker, Kubernetes

HONORS

Uber 2017 Hackathon Winner CMU Dean's List
Eta Kappa Nu Honor Society BSA : Eagle Scout

PROJECTS

Electro-Luminescent Wire Art, Transit Mapping, Woodworking, Android game design