Nicholas Kantack

603 Concord Ave, Apt 605 · Cambridge, MA 02138 · 605-690-6811 · nickkantack@gmail.com

Education

University of Oklahoma
Bachelor of Science: Engineering Physics
Graduated May 2016
Cumulative GPA: 3.98

University of Virginia
Master of Science: Electrical Engineering
Graduated December 2020
Cumulative GPA: 3.87

Work/Research Experience

Amazon Web Services   July 2022 - Present
Software Development Engineer (Level 2)

- Backend development for Amazon Connect, a cloud-based customer service platform
- Developed anomaly detection algorithms, automation tools for DevOps, and led effort to migrate legacy infrastructure to AWS Fargate

Johns Hopkins Applied Physics Laboratory   July 2018 - July 2022
Software Developer/Electrical Engineer

- Principal investigator for six internal research grants totaling $315,000 in funding
- Projects include AI in medicine, XR sensor fusion and localization, state estimation machine learning, and thin film RF device design

IntriCon Corporation   May 2016 - July 2018
Electronics Manufacturing Engineer

- Design and prototype sub-millimeter scale inductors for implantable medical devices
- Physical simulation and data analytics software design and support

Skills

Proficient	AWS, Lambda, Fargate, EC2, Java, Javascript, C++, C#, Python, PyTorch, TensorFlow, Android, OpenSCAD, Agile, 3D printing, digital circuits, embedded devices, VR/AR, probability theory, statistical tests, modeling & simulation, machine learning, neural networks
Familiar	CUDA, R, AutoCAD, Unity, Matlab, LaTeX, NodeJS, AngularJS, Docker, SQL, PCB design, RF systems, signal processing, NLP, Deep RL, robotics

Publications and Projects

Visit nickkantack.com for more information.