

SUMMARY

Engineer exploring the frontier of quantum networking technologies, with a strong interest in contributing to research and development in emerging computing domains. Brings extensive experience designing and automating secure, scalable systems in networking, cybersecurity, computer vision, and electronics R&D. Skilled at translating complex technical concepts into actionable solutions for cross-functional teams, and eager to apply proven problem-solving abilities to advance the capabilities and applications of quantum communication and networking.

EDUCATION

Certificate – **Quantum Science, Networking, and Communications** — University of Chicago – 2025

Masters of Science – **Software Engineering** — East Carolina University – 2017

Bachelors of Science – **Computer Engineering** — North Carolina State University – 2011

Bachelors of Science – **Electrical Engineering** — North Carolina State University – 2011

TECHNICAL SKILLS

Languages: Python, C, Java, SQL, JavaScript, Bash, PowerShell
Backend: Django, Flask, FastAPI, GraphQL, REST APIs, WebSockets, Keycloak
AI/ML: TensorFlow/Keras, PyTorch, OpenCV, Scikit-image, Scikit-learn, Pandas
Data: SQL, PostgreSQL, MySQL, Neo4J, Redis, MongoDB, DataStore/FireStore, Vault, Hadoop
Cloud Infra: AWS (Lambda, S3, EC2), GCP (Compute, Run, Kubernetes, Storage), Docker, GitLab's CI/CD

EXPERIENCE

VP - Software Engineer II, Network Automation — Bank of America

June 2025 - present – Chicago, IL

- Design and develop network automation software that integrates with enterprise-sc, develop, test, and document network-focused software applications and automation

Senior Software Engineer — Reveald Inc.

June 2022 - May 2025 – Remote (Chicago, IL)

- Lead backend Python software development for Exposure/Impact Analysis, Vulnerability Management, Agent Control
- Implemented internal System Health Dashboard with Python Flask backend and React Javascript frontend
- Built Ticket Management System that syncs with JIRA and ServiceNow saving \$150K annually

Senior Software Engineer — DivIHN Integration for Deloitte

March 2021 - June 2022 – Remote (Chicago, IL)

- Lead developer for automated document management system which brings in \$10M ARR for Deloitte
- Leveraged Python, Flask, GCS Cloud Run, GCS Compute, GCS Datastore, Hyperscience, Parascript, DocumentAI

Senior Software Engineer, Writer, & Customer Support Engineer — PylmageSearch

May 2017 - March 2021 – Remote (Durham, NC & Chicago, IL)

- Developed Python computer vision pipelines for classification, object detection, segmentation, regression, and tracking
- Authored 170+ tutorials and a 3-vol book raising \$370K on Kickstarter
- Supported 15,000+ online customers via forums and email, driving community engagement and education

Software Engineer — GDH Consulting for Cisco Systems

June 2017 - October 2017 – Raleigh/Durham, NC

- Implemented Python network automation framework test cases for Cisco's Tier 1 internet backbone customers
- Configured switches, routers, and traffic generators with Python and Bash automation

Graduate Research Assistant — East Carolina University's Computer Science Department

May 2016 - May 2017 – Greenville, NC

- Instructor for 60-student Undergraduate Discrete Mathematics course
- Awarded the 2016-2017 Outstanding Computer Science Graduate Assistant by the department

Software Engineer for Electrical Test Systems — Molex

May 2014 - May 2016 – Little Rock, AR

Wireless Systems Engineer for Cellular, Microwave, & Radar — Northrop Grumman

August 2011 - April 2014 – Cherry Point, NC & Virginia Beach, VA