

SUMMARY

Engineer with 15+ years of Python experience, solving complex problems in cybersecurity, computer vision, networking, electronics testing, wireless communications, and robotics. I create innovative solutions that align with business goals. I thrive in global, cross-functional teams and excel at translating technical concepts for engineers and business leaders. My expertise spans backend web services, data pipelines, cybersecurity analytics, and AI applications.

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, Neo4J, Redis, MongoDB, DataStore, Firestore, Vault, Hadoop HDFS and MapReduce
Cloud Infra: AWS (Lambda, S3, EC2), GCP (Compute, Run, Kubernetes, Storage), Docker, GitLab's CI/CD

EXPERIENCE

Lead Backend Software Engineer — Reveald Inc.

June 2022 - present – Remote (Chicago, IL)

- Lead backend Python software development for Exposure Analysis, Impact Analysis, Vulnerability Management
- 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 in annual license fees

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, Hypercience, Parascript, DocumentAI
- Served as SCRUM Product Owner (certified) and led a team of 5 engineers

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

May 2017 - March 2022 – Remote (Durham, NC & Chicago, IL)

- Implemented vision pipelines including classification, object detection, segmentation, regression, and object tracking
- Wrote 170+ hands-on computer vision, machine learning, and deep learning tutorials
- Authored 3-volume book on Python / Computer Vision / Artificial Intelligence book and raised \$370K on Kickstarter.com
- Supported 15,000+ customers with customized Linux VMs/Cloud/disk images via email and online forums
- SCRUM Master (certified) and SCRUM Product Owner (certified)

Software Engineer — GDH Consulting for Cisco Systems

June 2017 - October 2017 – Raleigh/Durham, NC

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

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

May 2016 - May 2017 – Greenville, NC

Software Engineer for Electrical Test Systems — Molex

May 2014 - May 2016 – Little Rock, AR

Wireless Systems Engineer (Cellular & Radar) — Northrop Grumman

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

EDUCATION

Certificate in Quantum Science, Networking, and Communications — University of Chicago – 2025 (in progress)

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

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

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