David Hoffman

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SUMMARY

Engineer with 15+ years of Python experience, solving complex problems in cybersecurity, computer vision, networking, electronics R&D, wireless communications, and robotics. Create innovative solutions aligned with business goals. Thrive in global, cross-functional teams and excel at translating technical concepts for engineers and business leaders.

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, NVIDIA CUDA (V100, K80)
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

Senior Software Engineer — Reveald Inc.

June 2022 - present – 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 — PyImageSearch

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
- Leveraged a Cloudera Hadoop Cluster for high performance computing research

Software Engineer for Electrical Test Systems — Molex

May 2014 - May 2016 – Little Rock, AR

- Develop Python, C, & TCL software for Molex High Performance Cable test systems (VNA, TDR, Laser, Vision, SBCs)
- Assist and train technicians/operators in US, MX, and CH labs globally

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

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

- Wireless path analysis (UHF, VHF, GSM, CDMA, Microwave), Classified/Unclassified networking (Cisco), Radar jamming
- Manage defense training project budgets, procurement, asset tagging; train operations & maintenance technicians

EDUCATION

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

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