David Hoffman

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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 and lead teams that make an impact. 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
Databases: SQL, PostgreSQL, Redis, MongoDB, DataStore, FireStore, Vault
Cloud Infra: AWS (Lambda, S3, EC2), GCP, Docker, Kubernetes, GitLab, CI/CD
AI/ML: TensorFlow/Keras, PyTorch, OpenCV, Scikit-image, Scikit-learn, Pandas

EXPERIENCE

Lead Backend Software Engineer — Reveald

June 2022 - present – Remote (Chicago, IL)

- Lead backend Python software development for Exposure Analysis, Impact Analysis, Vulnerability Management
- Created internal system health Flask backend and React frontend
- Work closely with the frontend development team to deliver customer facing value
- Ticket synchronization feature saves $85K in Atlassian license fees annually
- Create and maintain system architecture and UML diagrams

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
- Served as SCRUM Product Owner and led a team of 5 engineers
- Leveraged Python, Flask, GCS Cloud Run, GCS Compute, GCS Datastore, Hypercience, Parascript, DocumentAI

Senior Software Engineer, Writer, & **Customer Support Engineer** — PyImageSearch

May 2017 - March 202 – Remote (Durham, NC & Chicago, IL)

- Authored 3-volume book on Python / Computer Vision / Artificial Intelligence book and raised $370K on Kickstarter.com
- Wrote 170+ hands-on computer vision, machine learning, and deep learning tutorials
- Implemented CV pipelines including image classification, object detection, segmentation, regression, and object tracking
- Supported 15,000+ customers with customized VM, cloud, and bootable disk images
- Responded to 18,000+ computer vision questions via email, tickets, comments, and threads
- SCRUM Master (certified) and SCRUM Product Owner (certified)

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

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