Charles W. Koch

SKILLS

Technical	Platforms:	macOS	Linux	Windows	Amazon	n Web Se	rvices (AWS)	Docker / Kubernetes
	Languages:	Python	Java	JavaScript	SQL	NoSQL	C / C++	
	Frameworks:	Django	Poetry	Spring Hib	ernate	jQuery	NodeJS Vu	e.js
	CI/CD Tools:	GitLab C	l Jenki	ins CloudFo	ormation	Snyk	Artifactory I	Prisma Cloud

Professional Collaboration for design, implementation, and installation of projects of many disciplines Management of small design & engineering teams as well as training employees Writing documentation and training materials for both technical and non-technical personnel

WORK EXPERIENCE

Staff Software Engineer	Blackhawk Network – Pleasanton, CA (remote)	Nov. 2022 – Present
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- Migrated over 50 projects into the development pipeline by establishing a standardized CI/CD workflow for Python
 projects using Poetry and Docker within a Jenkins pipeline.
- Improved deployment times by 90% by utilizing Infrastructure as Code (IaC) practices via CloudFormation to instantly deploy projects to AWS and Kubernetes.
- Reduced known vulnerabilities by 70% through the integration of scanning tools, such as Snyk, SonarQube, and Prisma Cloud, within the Jenkins build and deployment pipelines.
- Increased pipeline adoption by 50% by providing demos, learning sessions, and mentorship to teams as they are onboarded to the pipeline.

Senior Project Engineer	Mountain Leverage – Grafton, WV (remote)	Nov. 2021 – Nov. 2022

- Lead architect of the OpsWare Connect platform, delivering a fully integrated Django server, Vue.js web application, and Python voice-directed application for warehouse operations.
- Incorporated websockets and Redis asynchronous task scheduling to provide real-time data and analytics for millions of database records served to hundreds of simultaneous users.
- Managed a small team of 4-6 developers to maintain and improve the OpsWare Connect platform, adding new features and improving response times and total system throughput by 500%.

Senior Project Engineer	Speech Interface Design – Pittsburgh, PA	Nov. 2014 – Nov. 2021

- Reduced customer support response times by 50% by providing a log analysis tool with features for log filtering, log highlights, execution time graphs, and voice recognition analysis.
- Designed and modified voice-directed applications and Java backends to implement warehouse operations, including data mapping between hosts, database schema design, and voice application development.
- Improved code quality and reduced bugs by 25% by implementing new processes and tools like code coverage and test-driven development, fostering a culture of continuous improvement.

EDUCATION

Bachelor's Degree in Computer Science

University of Pittsburgh – Pittsburgh, PA

Graduated with Magna Cum Laude honors.