

King Dominguez

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SUMMARY

Lead software engineer with 10 years of experience building secure, scalable applications, cloud native platforms, SDKs, and shared developer capabilities. Advanced Java and Python practitioner with strong JavaScript experience across system design, production delivery, automated testing, CI/CD, application resiliency, security, and operational troubleshooting. Leads practical adoption of approved **AI assisted development** for code review, refactoring, test acceleration, incident analysis, and root cause analysis. Establishes validation standards for correctness, performance, **data sensitivity**, secure input and output handling, **peer review**, resiliency, and **automated testing**. Delivered reusable frameworks, production AI capabilities, automated remediation, and dependable developer platforms. Brings thoughtful technical leadership, mentoring, architecture guidance, and community building that can support secure, stable, scalable engineering outcomes.

EXPERIENCE

Lead Software Engineer, AI Developer Platform

February 2023 - Present

Aster Peak Digital Systems

Pittsburgh, PA

Leads cloud native platform delivery, reusable Java and Python components, internal SDKs, automated upgrades, and approved AI assisted engineering workflows. Guides architecture reviews, production stability, responsible AI validation, and an engineering **community of practice**.

- Packaged reusable Java and **Python** components into a **cloud native** developer platform for engineering teams.
- Established AI output validation with peer review, testing, security checks, performance verification, and data controls.
- Built versioned service components with automated dependency upgrades, keeping adopters current through **CI/CD** delivery.
- Paired AI incident hypotheses with logs, metrics, traces, and engineer verification during production analysis.
- Converted recurring recovery procedures into tested automation with observability and rollback safeguards for stronger resiliency.
- Led architecture reviews and communities of practice covering **responsible AI**, **secure coding**, testing, and reusable frameworks.

Senior Software Engineer

July 2020 - January 2023

Keystone Cloud Software

Philadelphia, PA

Designed Java and Python services for a multi tenant cloud platform, supporting APIs, operational controls, internal SDKs, controlled delivery, responsible AI adoption, and production reliability. Mentored engineers through architecture and readiness decisions.

- Designed **Java** and **Python** services that translated scalability, security, and reliability needs into operational APIs.
- Created an internal SDK standardizing authentication, telemetry, retry behavior, and configuration across application teams.
- Expanded **CI/CD** pipelines with unit, integration, **security**, and deployment checks for controlled production promotion.
- Introduced human validated AI **code review** and test ideation for secure, maintainable engineering outcomes.
- Diagnosed production issues through logs, traces, metrics, code analysis, and controlled reproduction techniques.
- Mentored engineers through design reviews and readiness assessments focused on **resiliency**, testing, security, and ownership.

Software Engineer II

March 2018 - June 2020

Riverbend Commerce Technologies

Cleveland, OH

Delivered Java and JavaScript transaction services from technical design through testing, deployment, monitoring, and production support. Refactored shared libraries, strengthened **continuous delivery**, supported cloud native migration, and reduced manual recovery work.

- Delivered **Java** and **JavaScript** transaction services from technical design through monitored production deployment.
- Refactored shared modules into reusable libraries with documented interfaces and automated test suites for product teams.
- Expanded delivery checks for integration behavior, configuration validation, dependency risk, and rollback readiness.
- Investigated recurring service incidents, documented root causes, and implemented code or **automation** changes.
- Applied **secure coding** across authentication, authorization, input validation, dependencies, and sensitive application data.
- Supported containerized **cloud** migration with automated provisioning, health checks, and scalable runtime operations.

Software Engineer

June 2016 - February 2018

Summit Harbor Software

Akron, OH

Built Java and JavaScript application features under senior engineering review, contributing unit testing, integrations, release documentation, deployment support, production monitoring, and disciplined software delivery practices.

- Built **Java** and **JavaScript** features from requirements with maintainable code, tests, integrations, and release documentation.
- Debugged application defects through logs, controlled reproduction, code inspection, and targeted tests.
- Added regression coverage around frequently changed modules, strengthening release confidence within continuous integration.
- Created reusable utilities for validation, configuration, and API communication under senior engineering review.

- Supported deployment monitoring by documenting failure scenarios, escalation paths, and operational responses.
- Strengthened secure development through **code review**, dependency maintenance, testing, and disciplined delivery practices.

PROJECTS

Reusable AI Component Platform 📅 2025

Created drop in components, internal SDKs, automated upgrades, and validation patterns for secure AI assisted engineering adoption.

Cloud Service Reliability Automation 📅 2022

Automated recurring detection and remediation across cloud services, combining observability, rollback safeguards, and production readiness practices.

LEADERSHIP & AWARDS

- Led an engineering community of practice focused on responsible AI, reusable frameworks, secure coding, and cloud native delivery.
- Recognized by engineering peers for practical mentoring across architecture reviews, production readiness, testing, and operational ownership.
- Built shared developer capabilities that helped application teams adopt standardized SDK patterns and controlled delivery practices.

EDUCATION

Bachelor's Degree in Computer Science

2016

University of Pittsburgh GPA: 0

Pittsburgh, PA

Coursework: Software engineering, algorithms, database systems, operating systems

CERTIFICATIONS

- AWS Certified Developer Associate 📅 2026
- Software Engineering Certification 📅 2026

TECHNICAL SKILLS

- **Programming Languages:** Java, Python, JavaScript
- **AI Engineering:** AI assisted development, AI native tooling, machine learning
- **Developer Platforms:** SDKs, frameworks, developer platforms
- **Cloud Platforms:** AWS, cloud native engineering, containerized workloads
- **Delivery Practices:** CI/CD, continuous delivery, release automation
- **Testing Tools:** Unit testing, integration testing, automated testing
- **Security Engineering:** Secure coding, authentication, authorization
- **Reliability Engineering:** Application resiliency, observability, rollback safeguards
- **Operational Analysis:** Incident analysis, root cause analysis, troubleshooting
- **Software Methods:** Software Development Life Cycle, agile engineering, code review
- **Integration Engineering:** APIs, service configuration, dependency management
- **AI Validation:** Peer review, correctness checks, performance verification

SKILLS

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|------------------|----------------------------|--------------------------|---------------------|
| • Java | • AI Native Tooling | • Continuous Delivery | • Automated Testing |
| • Python | • System Design | • Automation | • Code Review |
| • JavaScript | • Cloud Native Engineering | • Secure Coding | • Agile Engineering |
| • Responsible AI | • CI/CD | • Application Resiliency | |

PROFESSIONAL AFFILIATIONS

- Engineering community of practice participant, responsible AI and reusable framework discussions.
- Cloud platform engineering collaborator, supporting secure delivery, resiliency, and shared developer capabilities.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST