Frank H. Charron

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SUMMARY

- 10+ years experience in startup environments building and mentoring software development teams, managing software projects and guiding teams to successful delivery
- 25+ years experience mostly in startup environments, designing, developing, verifying, deploying and monitoring/measuring software successfully for a wide variety of applications and domains.

EDUCATION

The George Washington University, DC —
MS Operations Research, 1995

University of Virginia, Charlottesville, VA —
BA Mathematics, 1990

EXPERIENCE

Contractor - Software Development, Knoable, Inc
Portland, OR — Aug 2015 - present

Contributed to full-stack development for the iOS Knoable app and cloud-based Knoable data and services that enable connected, digital storytelling for everyone. Responsible for the backend stack and infrastructure, building, deploying and monitoring cloud-based Knoable services that are reliable and scalable.

Accomplishments

- Architected and delivered full-stack capabilities to support user registration, passwordless user authentication, and off-platform user onboarding flows, to support low-friction viral growth of the user base.
- Developed, deployed and maintained scalable, highly-available live Knoable web services.

Volunteer Developer & Instructor, CodeVana

SKILLS

Languages: Java, Javascript, Python, Swift, Objective-C, C++, C, PHP

Technologies: Node.js (Express, Meteor), Spring+Hibernate, Django, WordPress, Xcode + CocoaPods, web servers (nginx, apache, tomcat), SQL (MySQL, Oracle), NoSQL (MongoDB, Redis, Neo4j), ElasticSearch, AWS, Docker, CI (Jenkins, TravisCI), testing (Selenium, mocha, JUnit), REST/APIs

Portland, OR — Mar 2015 - present

In a part-time volunteer role, contributed to non-profit CodeVana's mission to "Democratize Coding" by assisting with coding instruction programs and launching and updating CodeVana's web and community sites.

Accomplishments

- Led instruction for week-long *Idea 2 Reality* coding camp and assisted with instruction on week-long *Breakaway With Code* camp; provided instruction for coding days at OutsideIn and p:ear.

Director of Development, Jama Software
Portland, OR — 2008-2015

Responsible for building and growing the development team at Jama Software and led the team to successful release launches of the Jama product delivery platform as Jama grew from an early-stage to a growth-stage startup. Led the team that delivered a scalable, secure and highly available SaaS solution of the Jama product to meet SaaS growth goals for enterprise customers driven by VC investment.

Accomplishments

- Pioneered and led the "social-with-a-purpose" innovations for project teams within the Jama product including Review Center and the Project Collaboration Stream.
- Launched next-generation SaaS version of the Jama production backed by a scalable, high-availability SaaS architecture safeguarding data isolation and integrity.
- Responsible for design and development of the Jama JIRA Connector, an integration plugin that unlocked the Jama value proposition for the JIRA customer base and was used by 25% of Jama customers.

Software Development Manager/Lead, K12, Inc
Herndon, VA — 2004-2008

Guided the development team responsible for the K12 Online School System, a SaaS learning and content delivery platform powered by a highly clustered service-oriented architecture to scale to increasing usage, higher volumes of K12 curriculum

Software Development: Scalable/HA Web Services Architecture, Continuous Integration, Design Patterns/ Refactoring, Agile/Lean/Rapid Development (Kanban, Scrum), BDD/TDD

content and to provide high availability to students and teachers.

Accomplishments

- Led the team to multiple major school year releases during which new distance learning capabilities were rolled out like predictive planning tools and adaptive curriculum content.
- Led the team to launch the K12 Online Enrollment system which included deployment of 3 web apps within 4 months to deliver the system just-in-time for enrollment season; the system has been instrumental in increasing K12 enrollment numbers each year since launch, reducing errors and processing time.
- Led development for initial launch of the K12 Online High School, delivering a system to perform integration services between K12 enrollment and fulfillment systems and a 3rd party Learning Management System.

Senior Software Engineer/Architect, Cigital, Inc (previously Reliable Software Technologies)
Dulles, VA — 1995-2004

Designed and built software analysis tools to assess security, fault-tolerance, and reliability of software

Accomplishments

- Key member of the development team that built the first parser-based Java code security scanning tool that was later sold to Fortify Software and the first code coverage tool for Java (WhiteBox).

Associate Staff Member, BDM International, Inc
Dulles, VA — 1990-1995

Led development of the Process Design Tool and PROSIM FEM-based software products for simulating metal parts processing to reduce manufacturing costs.