Frank H. Charron

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SUMMARY

- Deep software development experience with many years of technical and team leadership especially in startup environments.
- Track record of delivering high-value software in a variety of domains, applying problem-solving skills and a range of technologies to deliver value.
- Proven leadership building and mentoring software development teams, managing software projects and guiding teams to successful delivery.

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-Jul 2016

Contributed to full-stack development for the iOS Knoable app and cloud-based backend platform that enable collaborative, digital storytelling for mobile users.

Accomplishments

- Architected and delivered full-stack capabilities to support user registration, passwordless user authentication and off-platform user onboarding flows to promote low-friction viral growth of the user base.
- Responsible for the backend stack and infrastructure - building, deploying and maintaining scalable, highly-available Knoable web services.

SKILLS

Languages

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

Technologies

Node.js(Express, Meteor), Spring+Hibernate, Django, WordPress, HTTP servers(nginx, Apache, Tomcat), MySQL, NoSQL(MongoDB, Redis, Neo4j), ElasticSearch, Graphite, Nagios, AWS, Docker, CI(Jenkins, TravisCI), git, Test FWs(Selenium, mocha, JUnit)

Volunteer - Developer & Instructor, CodeVana
Portland, OR — Mar 2015-present

Contributed to 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* camp and assisted with instruction for 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 service-oriented architecture designed to provide

Software Development

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

high availability for students and teachers and to scale as usage and K12 curriculum content grew.

Accomplishments

- Led major school year releases in which new distance learning capabilities were rolled out like predictive planning tools and adaptive curriculum content.
- Led the launch of the K12 Online Enrollment system 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 integration services between K12 student enrollment and management systems and a third-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
- Led development for the release of the first code coverage tool for Java (WhiteBox).
- Led development and custom client integrations for the SafetyNet product, a source code analysis tool that assessed the fault tolerance of safety-critical C/C++ applications.

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.