

SHIVANAND VELMURUGAN

PRODUCT LEADER

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Effective Product Leader with experience in design and development of software products. An inquisitive problem-solver that drives decisions based on a data-driven first-principles approach. Excellent communication, collaboration, and organizational skills in addition deep technical expertise. Adept in building and working with high-performing engineering teams. Demonstrated success in tackling hard engineering problems and delivering products and solutions that have an impact on the organization.

Key Strengths

Strategic Thinking | Data Collection & Organization | People Connector | Leader & Mentor

PROFESSIONAL EXPERIENCE

GE DIGITAL Burnaby, British Columbia

2017-2019

Staff Technical Product Manager

Reporting to the Director of Product, accountable for two products at GE Digital: Predix Studio and Predix AppEngine. Target markets include GE business verticals of power, mining, aviation, and healthcare. Total addressable revenue potential: 100M+.

Key Accomplishments:

- Successfully drove impactful architectural changes to enable access to various market verticals including healthcare and aviation with a potential addressable revenue of 100M+.
- Instituted a data-driven approach to product roadmap definition and planning, resulting in a shift to a continuous improvement model of developing products.
- Initiated and drove the adoption of GE security policies reducing the number of security issues from 1000+ to zero and enabled ISO 27001 compliance, GDPR and HIPAA.
- Led engineering teams to focus on product quality improvement by creating team alignment initiatives. Reduced bugs from 3000+ to less than 200 in one year.
- Reduced operational cost by streamlining product infrastructure, testing practices and instituting CI/CD. Created clarity on customer offering and cost to serve, and reduced bug incidence during regression by ~300% YoY.

ERICSSON INC. (HCL Axon Technologies, Redback Networks) Burnaby, British Columbia
2007-2017

Progressive career and reporting structures, beginning with Redback Networks as Senior Software Engineer, moving into Team Lead and Product Owner.

Product Owner (2014-2017)

Reporting to a Senior Manager, defined vision, strategy and roadmap for next-gen declarative application development on Ericsson IPOS product line.

Key Accomplishments:

- Secured executive buy-in and investment in multi-year infrastructure projects. Effectively prioritized and shaped requirements from multiple stakeholders, including developers, system managers and product sponsors within Ericsson.
- Built and mentored multiple agile product development teams across North America and East Asia. multiple sites and time-zones. Leveraged agile methodologies to successfully develop high performing teams to deliver key projects on time and within budget.

- Migrated six applications within three months resulting in reduced code base by up to 80%; increased developer productivity by two to three times; and, improved time to market from months to days.

Engineer/Architect (2008-2016)

Reporting to a Senior Manager, led and managed diverse product improvement initiatives in various domains including core infrastructure, configuration management, and license management for a carrier class router operating system.

Key Accomplishments:

- Successfully designed, developed and operationalized a set of components for managing schema-based data using a high-performance database in carrier-class router operating system.
- Designed common models for IPOS and evangelized Ericsson Common Information Model and its adoption across IPOS features including setting standards, establishing a technical council of developers proficient in modeling, training and mentoring them to work with IPOS feature teams.
- Created a meta-data aware, non-transactional cache. Created a high-density, low-latency, transactional datastore with record-level locking.
- Shortened development cycle from hours to seconds by redesigning build infrastructure for IPOS platform and components.
- Wrote a custom DSL to provide Object Relationship Mapping between two proprietary data definition languages.
- Implemented Python and JavaScript apps to demonstrate MDI's abilities as an ecosystem for rapid app development using SWIG and FFI.

PREVIOUS PROFESSIONAL EXPERIENCE

Novell, Bangalore, India, Senior Software Engineer (2006-2007)

HCL Technologies (Cisco Partner), Chennai, India, Lead Engineer (2002-2006)

Intec Solutions, Chennai, India, Software Engineer (2001 - 2002)

EDUCATION & PROFESSIONAL DEVELOPMENT

Bachelor of Technology, Electrical & Electronics Engineering, Pondicherry Engineering College, India

Disruptive Strategy Certificate, Clayton Christensen, Harvard School of Business

SKILLS

Proven expertise in product management, architecture and design of high-performance and high-scale industrial software, databases and IP operating systems. Expert in C and C++, with an emphasis on development in embedded systems.

Product Management: JTBD Theory, Product strategy, Disruptive Innovation Theory, Lean Startup, Scrum and Agile practices

Languages: C, C++, Java, Javascript, Python, BASH, Perl, Ruby, Go, Rust, Nimrod, Terra

Build Tools: CMake, Make, Ninja

Source Control: Git, CVS, SVN, Mercurial, Clearcase

Miscellaneous: XML, XSLT, SOAP, XQUERY, SWIG, ANTLR, Flex/Bison, JSON, REST

Networking: NETCONF, RESTCONF, SNMP, several L2 and L3 protocols

Cloud: Cloudfoundry, and several AWS, GCP and Azure products