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# Joseph Barnett **Distinguished Software Engineer**

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## Summary

Dynamic, results-driven engineer with 20+ years of hands-on experience in pioneering technology solutions that enhance market value and product delivery. Proven track record in leading and delivering high-impact projects from concept to deployment, driving customer acquisition, and securing significant company valuations. Specialized in cloud-native architecture, system design, infrastructure design, and innovation in software engineering, with a passion for building scalable, secure, and efficient systems. Adept at international travel for client engagement, including on-site customer onboarding, meetings, and design sessions, with a strong capability to adapt and thrive in diverse cultural environments.

## Skills

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**Programming Languages:** Java, Python, Go, C#, C++, JavaScript, ASM, Terraform, Numerous Scripting languages

**Technologies:** Cloud-Native/System Architecture, Linux/Windows OS Internals, Docker, K8s, eBPF, Virtualization, CI/CD, Security and Compliance (FedRAMP, SOC2, ISO27001)

**Databases:** PSQL/Postgres, MS SQLServer, Oracle, DynamoDB, Mongo

**Specializations:** Architecture Design, Product Innovation, Customer Acquisition, Market Value Enhancement

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## Professional Experience

**Slim.AI / First Engineer, Distinguished Engineer**

NOV 2020 - PRESENT, ACTON, MA USA

Spearheaded the development of a cutting-edge container minification and security platform, contributing to securing A round funding and an early market buyout offer.

Designed and developed multiple research prototypes, including a Docker desktop extension which delivered 20% month-over-month growth in customer acquisition.

Architected and implemented foundational systems for CI/CD, system platform, workflow orchestration, security, and core product scanning, intelligence and build engines delivering customer satisfaction leading to the first company customer.

Engaged directly with Design Partners to guide internal design and architectural decisions, ensuring product development is meticulously aligned with market needs. This strategic collaboration has been pivotal in landing and retaining key customers/design partners, significantly enhancing our ability to meet and exceed market expectations with our offerings.

Extensively traveled internationally for on-site customer onboarding, meetings, and design sessions, enhancing customer engagement and satisfaction across global markets.

**Cisco / Product Architect, Lead Security Architect, AppSec Manager**

JAN 2017 - NOV 2020, WALTHAM, MA USA

Managed the Cloud Security engineering team, and security system architecture design pivotal in transformation for cloud security division security processes and practices achieving compliance with FedRAMP, SOC2, and ISO27001 across 63 teams.

Partnered with the global sales division to secure a \$5M investment into the cloud security division to drive security compliance programs.

Extensively traveled internationally to collaborate with global teams on security projects and to represent Cisco at international security conferences, fostering strong partnerships and contributing to Cisco's leadership in cloud-native security solutions.

Acted as a Federal Customer Engineer, fostering partnerships with federal agencies and driving product adoption through strategic design and procurement discussions helping break open a \$1B federal market opportunity for Cisco Umbrella.

Delivered presentations at industry conferences, establishing thought leadership in cloud-native security and compliance.

### **Metratech-Ericsson / Software Engineer VI**

DEC 2009 - JAN 2012, WALTHAM, MA USA

Led the development of a domain-specific language billing platform generation engine, demonstrating innovation in contract modeling and distributed application processing for high speed inline billing and contract enforcement.

Led design and delivery of billing system for Microsoft Azure platform, delivering value for Microsoft contract and billing flexibility.

Played a pivotal role in system refactoring and integration pre- and post-Ericsson acquisition, ensuring seamless transition and enhanced product capabilities.

### **Egenera / Sr Software Engineer**

JAN 2007 - DEC 2009, MARLBOROUGH, MA USA

Developed cutting-edge virtualization and management technologies for server, chassis, rack, and warehouse control, driving improvements in data-center efficiency and control and virtualization.

### **Motorola / Software Engineer III**

FEB 2003 - JAN 2007, SOUTHBOROUGH, MA USA

Engineered OS support packages, drivers, and firmware for Linux kernel distributions, contributing to the ATCA product line and demonstrating deep expertise in Linux kernel and hardware interaction.

### **Netplane Systems / Software Engineer**

JUN 2000 - FEB 2003, DEDHAM, MA USA

Pioneered the development of a video streaming platform and a JavaScript interpreting engine for NTT DoCoMo, showcasing early innovation in streaming and web technologies over MPLS backbone networks.

Designed and implemented javascript interpreter engine and protocol support libraries, enabling fast network creation and configuration, marking a significant early breakthrough in network management and simulation.

Developed multiple cross platform backbone protocols stacks helping capture 70% market share of the telecommunications protocol market.

Delivered advanced engineering training on networking and routing protocols, establishing a foundation for future technologies in telecommunications.

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## Education

**Northeastern University** / BS *magna cum laude* in Computer Engineering

JUN 2001- DEC 2006, BOSTON MA

**Portland Community College** / Associates *magna cum laude* in Computer Software Engineering Technologies

SEPT 1996 - JUNE 2000, PORTLAND OR

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## Software Community Involvement

Actively contribute to a diverse range of Open Source projects and collaborative efforts with industry peers, supporting key technologies, and participate in community hackathon events.