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| Pandiarajan Subramanian |

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# Professional Summary

* Over 18 years of experience in software platforms and products development in semiconductor, industrial, and consumer products/solutions as a lead developer and architect.
* Architected, designed, and developed web, desktop and embedded applications that were used by millions of customers monthly.
* Spearheaded series of transformation initiative projects and quality improvement initiative projects including automation testing, virtual dev/test lab, performance tuning, and telemetry analytics.
* Executed Azure DevOps & Cloud migration for end-to-end software development and deployment life cycle beginning with requirements to final release including software licensing.
* Expertise in various software development lifecycles - Agile methodologies such as Scrum, Kanban, TDD, BDD and traditional methods such as Waterfall and RAD.
* Supported direct field escalations, worked with customers to fix field issues. Also solutioned customization of software products for end-customer environments and needs.
* Competent in Software architecture, System Design, Design Patterns, OOAD, DevOps practices. Expert in developing software using C#, ASP.NET, Angular, Azure Cloud, Python, FastAPI, Flask, HTML, JavaScript, PowerShell, PostgreSQL, MongoDB, OpenCV C++, VC++, MFC, ATL/COM, XAML.

# Skills

C++/Linux, VC++/Windows (15+ years) C#, .Net, ASP.Net, XAML (10+ years)

Python, FastAPI, Django, PostgreSql (3+ years) JS, JQuery, Angular (3+ years)

GIT, Jenkins, Accurev, Artifactory (5+ years) Azure, Azure devops (3+ years)

Ranorex, MSTest, GTest, Rational Suites (3+ years) JIRA, Confluence, BitBucket (3years)

# Experience

* **Software Specialist** @ Cuboits LLC (Nov 2022 to till date)
* **Senior Software development lead** @ HCL Technologies (Feb 2006 to Nov 2022)
* **Senior Software Engineer** @ Qmax Test Equipment’s Pvt Ltd. (May 2004 to Feb 2006)

# Education

* Master of Science in Software Systems, BITS Pilani, India (2010)
* Bachelor of Engineering in Electronics & Communication Engineering, Madurai Kamaraj University, India (2004)

# Certification

* Software Design and Architecture Specialization certificate from University of Alberta ([link](https://www.coursera.org/account/accomplishments/specialization/certificate/BGK73Z4ZXK5X))
* Microsoft Certified “Devops Engineer Expert”, “Developer Associate”, “IOT specialty” ([Credly link](https://www.credly.com/users/pandiarajan-subramanian/badges))
* PMI-ACP certification by Project Management Institute ([Credly link](https://www.credly.com/users/pandiarajan-subramanian/badges))
* Scrum Alliance Certified Scrum Master ([Badge Cert Link](https://badgecert.com/bc/html/groupbadges.html?k=dmxZN3ZQd2tGdkxMT2VEeEM1ajRXUT09))
* “Leaders in Action” Course completion certificate from Harvard Business Review
* IBM certified Enterprise Design Thinking Practitioner ([Credly link](https://www.credly.com/users/pandiarajan-subramanian/badges))
* Certified Design for Lean Six-Sigma Green Belt Professional by both Xerox & HCL

**Patents & Papers**

* Methods and systems for enforcing security settings for printing confidential documents ([link](https://patents.google.com/patent/US20180285579A1/))

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# Experience History

**Senior Software Development Lead & Architect Jan-2011 to till date.**

As a contractor for Xerox Corporation, Webster, NY, USA

* As a Senior Software development lead, I provide architectural and design directions for developing software platforms product development and business solutions specifically for Multi-Functional Printer and its IT infrastructure ecosystem.
* Developed embedded applications using C++/Linux, Apache/PHP/HTML5/Postgres that goes into MFP. Also develop web applications using C#, ASP.NET WebAPI, MVC, SQL Server for customer solutions. In addition to develop cross platform drivers and tools that live on Windows//MAC and mobile OSes.
* Lead cross functional global teams of 40+ through the entire software development life cycle from ideation to live production and support phases.
* Technically Responsible for delivering yearly platform release with new features, feature enhancements and requirements and on-demand product releases.
* Azure Cloud migration (both azure devops and azure cloud) was the key achievement for cost savings and better operational efficiency.
* Work on field escalations and field customization request by understanding end-customer environment and infrastructure needs.
* Worked specifically on C++ application memory analysis and enhancements, performance, reliability measurements and improvement activities. I ensure secure coding guidelines were followed, validating static/dynamic security code scan.
* Participated in value creation activities and executed couple of six-sigma projects Notable savings in one project worth of 1.2 million USD per year by optimizing the release cycle.
* Worked on various business proposals and won couple of customer contracts. High value business win was worth of 10 million USD for 5 years.

**Senior Technical Lead/Technical Lead Feb-2006 to Jan-2011**

As a contractor for Teradyne Inc, Boston, MA, USA

* Designed high-level and low-level software components using OOAD concepts and helped the team work on Test-Driven development and application performance improvement.
* Developed desktop applications and drivers for Automated Test Equipment (ATE) devices using C++, C#, .Net, VBA. Also worked on C#, ASP.NET Web-Forms for internal web applications.
* Led a development team of 5+ by executing and tracking the software development lifecycle.
* Led software releases and critical patches by acting as a release engineer, implemented lean practices and reduced non-value-added activities by saving 1.3 million USD over 2 years.
* Involved in Quality process activity, represented in SCAMPI appraisals for CMMI L3 process audit and ISO security audits.

**Senior Software Engineer/Software Engineer May-2004 to Feb-2006**

QMax Test Equipment Pvt Ltd, Chennai India

* Developed desktop application software modules for Automated Test Equipment (ATE) using VC++, MFC, COM/ATL, Python, for the semiconductor industry and performed bug-fixing activities on existing software product/platform.
* Provided field escalation support by resolving issues and contributed to software quality improvements.