

# Trilochan G Donkena

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## WORK EXPERIENCE

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### Software Solutions Architect, Intel Corporation

November 2022 - Present

- Architected and deployed a Microfrontend UI Platform on an on-prem Kubernetes Cluster with a microservice middle tier architecture, hosting 30 independent modules across manufacturing functional areas.
- Reviewed and analyzed code to ensure adherence to best practices and improve overall quality.
- Architected and developed resilient microservices-based APIs, enabling seamless inter-system communication and enhancing overall system interoperability..
- Facilitated Agile methodologies to enhance team collaboration and improve project delivery timelines.
- Architected structured system designs that optimized performance and scalability for diverse applications.
- Devised innovative cloud solutions that enhanced operational efficiency and reduced costs for the organization.
- Led technical teams in strategic projects, driving innovation and fostering professional development among team members.
- Mentored cross-functional teams on module development using React JS, Bootstrap, and Typescript
- Conducted training sessions to upskill backend resources for UI development.

### Senior Fullstack Engineer, SensiML/Quick Logic

November 2019 - November 2020

<https://app.sensiml.cloud>

- Implemented responsive user interfaces using modern frontend frameworks, React JS, Redux, and Material UI, to enhance user experience.
- Designed and developed web applications, ensuring high performance and scalability.
- Managed database systems effectively to support data integrity and accessibility.
- Architected robust backend solutions to optimize application functionality and security.
- Integrated APIs seamlessly to facilitate communication between different software systems.
- Enhanced application quality with automated unit tests using Jest and Enzyme.
- Implemented automated deployments to AWS and developed REST APIs using Django Rest Framework.

### Senior Software Engineer, Intel Corporation

December 2016 - November 2019

Intel Non-Volatile Memory Solutions Group (NSG):

- Led an Agile Scrum team in designing and developing supply chain applications.
- Led DevOps implementation and refined development processes for continuous integration and deployment.
- Revamped DevOps practices and developed responsive UIs using Bootstrap and Vue.js
- Designed responsive interfaces and integrated essential automated testing practices.
- Fostered effective team collaboration by facilitating open communication and promoting a collaborative work environment..
- Engineered robust system architectures to enhance performance and scalability in software applications.

Intel Sales and Marketing Group:

- Championed agile methodologies to streamline project management and improve team responsiveness to change.
- Led Agile Scrum teams to design and develop applications for Supply Chain and Planning.
- Architected and led the Retail Sales Accelerator application development, implementing CI/CD for 40 applications.
- Implemented rigorous code review practices to ensure high-quality code and maintain coding standards.

### Senior Software Architect, State of Nevada Department of Taxation

September 2015 - December 2016

<https://www.nevadatax.nv.gov>

- Designed robust systems that enhanced operational efficiency and supported user requirements.
- Architected a secure, scalable 3-tier enterprise solution for the state's online tax portal.
- Integrated APIs to facilitate seamless data exchange between various software applications.
- Developed high-quality software solutions that addressed complex business challenges and improved functionality.
- Led technical teams in project execution, fostering collaboration and promoting best practices in software development.
- Optimized system performance through rigorous analysis and implementation of effective enhancement strategies.
- Utilized TDD and design patterns to ensure high availability and security for the infrastructure.

## Senior Software Engineer, Intel Corporation

March 2001 – September 2015

Intel Custom Foundry

- Collaborated in an Agile Scrum team to develop the Intel Custom Foundry Web Portal, a comprehensive platform for managing the product lifecycle from initiation to delivery.
- Led a team of developers in creating solutions for the Post Silicon portal, enhancing customer engagement with Intel.
- Designed and implemented the foundational architecture for modular components within the Post Silicon framework.
- Promoted a collaborative development culture of pair programming and knowledge sharing among team members.
- Developed build scripts and automated builds to support continuous integration, improving deployment efficiency.
- Conducted code reviews and refactored existing code to enhance quality, implementing NUnit for unit testing and Fitness for user acceptance testing.
- Served as a Post Silicon Systems Enablement Architect, implementing automation solutions to streamline complex business processes and facilitate data sharing with customers.
- Developed innovative automation strategies that replaced intricate data interchange rules while adhering to Intel's legal and IP protection policies.
- Managed user groups and led requirements discussions with stakeholders, to develop solutions aligned to business needs.
- Defined best practices and exemplar solutions to guide developers in implementing effective patterns.
- Automated builds and established continuous integration processes, enhancing code quality through NUnit testing.

Intel Technology and Manufacturing Group

- Contributed to an Agile team in developing the Capacity Planning application, a web-based tool for managing capacity planning across Intel factories.
- Created thin client web user interfaces and RESTful web services using ASP.NET, enhancing application functionality.
- Employed Test Driven Development (TDD) methodologies and GOF design patterns to improve code quality and testability.
- Participated in code reviews, refactored code, and automated tests using NUnit to ensure high standards of software quality.

## EDUCATION

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### Western Michigan University

1997–1998

Master of Science – MS, Computer Science

### Dr. Babasaheb Ambedkar Marathwada University

1993–1997

Bachelor of Science – BS, Computer Science and Engineering

## SKILLS

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.Net Framework, Agile Project Management, API Design and Integration, ASP .Net, Bootstrap.js, C#, Cloud Computing Platforms, Containerization Technologies, Critical Thinking, Cypress, Data Modeling Techniques, Database Management Systems, Database performance, DevOps Methodologies, Enterprise Architecture Design, Enzyme, Git, Jest, Microservices Architecture, Performance Optimization Techniques, Python, React.js, Redux Toolkit, Rest APIs, Software Testing Strategies, Sql, Team Leadership Abilities, Typescript, User Interface Design, Vue.js

## CERTIFICATION AND LICENSES

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<b>Certified Scrum Master</b>	2019
<b>Microsoft Certified Professional – Developing and Implementing Web Applications with Microsoft® Visu</b>	2010
<b>SUN Certified JAVA 2 Programmer</b>	2004
<b>Microsoft Certified Professional – SQL Server 2000</b>	2002