

# Aravind Venkatesan

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## WORK EXPERIENCE

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### Senior Software Engineer

*Illumina, Inc., Singapore*

*Feb 2021 - Present*

- Spearheading critical feature development within the software informatics platform team, driving advancements in the core genome sequencing and downstream analysis in the field of Next-Gen Sequencing.
- Precision in code craftsmanship, meticulous peer code reviews, adept mentoring of junior developers, and proficient management of micro-services, event-driven systems, cloud apps, and key integration projects.
- Architecting, developing, and deploying cutting-edge software services with proficiency in .NETCore, Express, Spring Boot, AWS, Docker and K8S. These services underpin genomic sequencing cloud orchestration apps, influencing 98% of our esteemed customer base.
- *Key achievement:* Accelerated project delivery by an impressive 10x, surpassing planned timelines through proper planning, software design with clean architecture, and innovative code base optimization, which led to receiving multiple promotions and appraisals.

### Software Engineer

*Infoview Technologies Pvt Ltd., India*

*Sept 2017 - Dec 2019*

- Developed and maintained scalable full-stack web apps using React, Spring Boot, and Docker for the Approval Framework in AIWorks (HUE) ERP software.
- Created an automated bug detection and reporting tool that scanned product modules for vulnerabilities, reducing man-hours by 80%.
- Standardized processes by introducing agile methodologies and forming scrum teams, significantly enhancing team collaboration and efficiency.
- *Key achievement:* Played a pivotal role in the product enhancement team, troubleshooting and resolving critical issues across multiple micro-services, and collaborating with developers globally.

## EDUCATION

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### National University Of Singapore

*Master of Computing - Information Systems*

**Singapore**

*Jan 2020 - Dec 2020*

### Anna University

*Bachelor of Engineering - Electrical and Electronics*

**India**

*Aug 2013 - May 2017*

## TECHNICAL SKILLS

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**Programming Languages:** C#, Javascript, Python, Java

**Frameworks:** .NETCore, Express, Node.js, React, Django, Spring Boot

**Design:** HTML5, CSS, Tailwind, Bootstrap, Figma, Adobe XD

**Database:** PostgreSQL, MongoDB, MySQL, Cassandra

**Technologies:** Docker, Kubernetes, AWS, Azure, Redis, Apache Kafka, RabbitMQ, Elasticsearch

**Tools, Test and Automation:** Git, Postman, Jenkins, XUnit, NSubstitute, Selenium, Selenide, Mocha, JUnit

## PROJECTS

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- **Mimock:** Open source project - Set up mocks for REST endpoints to test UI applications locally or in CI/CD pipelines. Mimock follows an interceptor-based pattern that enables developers to create or update mocks without an application restart.
- **Hangar:** A multipurpose, all-in-one, secure cross-platform desktop and web app built using Electron, React, .NET Core, Spring Boot, and Tailwind with native apps and third-party integrations.
- **Blockbustr:** MERN Stack web app developed for academic purposes that demonstrates Cross-Site Scripting, HTTP Parameter Pollution problems, and the relevant defense mechanisms in the form of database scanning, data filtration, and deployment of attack detection middleware.

## CERTIFICATIONS

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- AWS Certified Solutions Architect Associate
- Microsoft Azure Fundamentals
- Google Project Management Certified