



# Aravind Venkatesan

I'm a dedicated and passionate software engineer having around 6 years of work experience

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## Experience

Software Engineer *Feb 2021 - Present*  
Illumina, Inc. *Singapore*

- Working on critical feature sets in the software informatics platform team which mainly empowers the core genome sequencing process in the Next-Gen Sequencing.
- Delivering high-quality code, performing peer code reviews, and handling critical microservices, cloud apps, as well as integration projects.
- Designed, developed, and deployed scalable and secure REST APIs majorly using .NETCore, Spring Boot, AWS, and Docker for genomic sequencing cloud orchestration apps that are used by 98% of the company's customer base.
- Key achievement:* Received promotion and appraisals from management for delivering the project 3x faster than the planned timeline by optimizing the codebase to handle complex validation strategies for multiple sequencers.

Junior Software Engineer *Sept 2017 - Dec 2019*  
Infoview Technologies Pvt Ltd. *Chennai, India*

- Developed and maintained scalable full-stack web apps majorly using React, Spring Boot, and Docker related to Approval Framework in AIWorks (HUE) ERP software.
- Developed an automated bug detection and reporting tool by scanning the product modules for vulnerabilities, reducing manhours by 80%.
- Helped our team to standardize the process by introducing agile concepts and scrum team formation thus resulting in 2x increased collaboration and efficiency.
- Key achievement:* Worked as a key person in the Product Enhancement Team to troubleshoot and resolve critical issues across multiple microservices, communicating and collaborating with developers around the globe.

## Internship

Software Engineer Intern *May 2020 - July 2020*  
GlobalSignIn Pte Ltd. *Singapore*

- Part of the SAAS web app team developing an events management platform called GEVME.
- Worked on AWS to create serverless integrations using Lambda, API Gateway, S3, DynamoDB, and CloudFront.
- Developed an integrated quality assurance automation library using Selenium for the GEVME platform.

## Volunteer and Leadership

- Played an active role in Go Green Project
- Attended IEDC entrepreneurship development camp
- Chaired as school pupil leader
- Emceed and organized events and tech talks

## Education

Master of Computing *Jan 2020 - Jan 2021*  
Information Systems *Singapore*  
National University of Singapore  
GPA: 3.65/5

Bachelor of Engineering *Aug 2013 - May 2017*  
Electrical and Electronics *Chennai, India*  
Sri Sairam Institute Of Technology  
GPA: 8.72/10

## Certifications

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

## Technical Skills

Programming Languages	C#, Javascript, Python, Java
Frameworks	.NETCore, Node.js, React, Django, Spring Boot
Design	HTML5, CSS, Sass, Tailwind, Bootstrap, Figma, Adobe XD
Database	PostgreSQL, MongoDB, MySQL, Cassandra
Tools and Technologies	Git, Docker, Kubernetes, Jenkins, AWS, Azure, Redis, Apache Kafka, RabbitMQ, Elasticsearch, Postman
Test and Automation	JUnit, XUnit, NSubstitute, Selenium, Selenide, Mocha

## Personal Projects

### Mimock

Open source project - Setup mocks for REST endpoints to test UI applications locally or in CI/CD pipelines. Mimock follows an interceptor-based pattern which enables the developer to create or update mocks without having to restart the application.

### 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 which 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.