

## CONTACT

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## FRAMEWORK

- Spring Boot
- Hibernate
- TensorFlow
- JavaFX
- Odoo
- Scikit-learn
- PyQt / PySide
- Celery
- Full Stack

## PROGRAMMING LANGUAGES

- Java
- Java Script
- C++
- Python
- PHP

## CERTIFICATES

- Machine Learning Crash Course
- Introduction to Large Language Models
- Responsible AI: Applying AI Principles with Google Cloud
- Introduction to Generative AI

# AKIL THANGAVEL

## SOFTWARE DEVELOPER

## PROFILE

Software Developer with over 5 years of experience, including 4 years as a successful freelancer. Specialized in ERP systems, AI-driven solutions, and web development with a proven track record of delivering high-quality software tailored to client needs. Adept at working with diverse Java technologies including Spring Boot, Hibernate, TensorFlow, and JavaFX. Seeking to leverage my technical expertise and problem-solving skills in a challenging role that offers opportunities for professional growth and innovation in cutting-edge projects.

## EDUCATION

- Master of Computer Applications (MCA)**  
KGISL Institute of Information Management  
Coimbatore  
Percentage - 84%
- Bachelor of Computer Applications (BCA)**  
Vidhyasagar College of Arts and Science,  
Udumalapet  
Percentage - 78%
- 12th Grade**  
BVB Matriculation Higher Secondary School,  
Palani  
Percentage - 88%
- 10th Grade**  
Hillock International School - CBSE  
Dindigul(Sirumalai)  
Percentage - 78%

## WORK EXPERIENCE

### Software Developer

Pinnacle Seven Technologies

**Technologies :** Java, ERP Systems, and Cross-functional Collaboration

I was actively involved in developing and customizing enterprise applications using Java and related technologies. My responsibilities included upgrading and enhancing ERP systems, ensuring compatibility with evolving business requirements. I worked closely with cross-functional teams to design and implement scalable software solutions, and I also provided technical support and training to end-users to ensure smooth adoption and efficient use of the applications.

## Building a Thinkorswim Algo Trading Bot using Java and TradingView Webhooks.

**Technologies :** Java, Spring Boot, JavaScript, HTML/CSS, Redis, RabbitMQ

Developed a Java-based Thinkorswim trading bot with Spring Boot, integrating TradingView webhooks and using Redis and RabbitMQ for asynchronous task handling to automate strategies and enhance trading efficiency.

### Roles & Responsibilities:

- Design and develop backend logic using Java and Spring Boot
- Implement API endpoints for data processing and trading logic.
- Integrate with Thinkorswim API for executing trades.
- Handle TradingView webhook integration for receiving real-time signals.
- Set up and maintain development and production environments.

## SantiagoCycleSim: Interactive Modeling and Visualization of Bicycle Trips

**Technologies :** Java, Spring Boot, PostgreSQL, HTML, CSS, JavaScript, Plotly.js, AWS

SantiagoCycleSim is a Java-based simulation tool using Spring Boot, modeling bicycle trips in Santiago. It processes spatial/tabular data from CSV and SHP files via geospatial libraries. Initially a desktop app, it's transitioning to a responsive web platform with interactive route visualization, real-time heat maps, and machine learning integration. Deployed on AWS for scalability and performance.

### Roles & Responsibilities:

- Develop Java scripts for data processing, modeling bicycle trips, and generating heat maps.
- Ensure responsive and user-friendly design for visualizing bicycle routes and heat maps.
- Manage databases (PostgreSQL) for storing and querying CSV and SHP file data.
- Integrate AI libraries for tasks like route prediction or anomaly detection

## Seminars, and Workshops

Conducted comprehensive seminars and engaging workshops across over 20 colleges in Coimbatore and Erode, empowering diverse audiences with in-depth knowledge of software development, and industry best practices. Sessions featured interactive learning, live demonstrations, and tailored Q&A segments, fostering practical skills and addressing specific challenges in the software sector.

### Topics

- Securing and Monitoring EC2 and Route 53
- Enhancing Spring Boot Applications with RabbitMQ for Asynchronous Task Processing
- Developing Cross-Platform Desktop Applications with Swing
- Building Web Applications with Quarkus: From Basics to Advanced

## DECLARATION

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I hereby declare that the information provided above is true to the best of my knowledge and belief. I take full responsibility for the accuracy of the details provided.

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Signature

