Rakesh **Dodda**

:: software_engineer ::

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$> **whoami**

Software Engineer with ~9 years of experience in building innovative robust healthcare software. Practicing writing aesthetic, testable and efficient code. Skilled in designing strong & scalable architecture. I enjoy moving tickets to the right on Jira Storyboards.

As a core member of teams in building **'first of its kind'** software, I've grown accustomed to a creative, bold & simple thought pattern. This nurtured my ability to work in an independent environment whilst always maintaining clear communication with my colleagues. Although primarily a Java backend engineer, I often find myself venturing into other interesting realms of technology.

$> **core_skills**

Languages & Frameworks	Databases/Storage/ORMs	Design & Concepts
Java	PostgreSQL	Design patterns
Spring	MySQL	JWT
VueJS	Redis	JSON
Dart (Flutter)	Hibernate	Websockets
Shell script		Native messaging
Javascript		OAuth
Python	**Tools/VCS/OS**	HL7
Keycloak	GIT	RESTful
RabbitMQ	Maven	Message queues
Laravel PHP	Centos	
JUnit	Oracle linux	
Google protocol buffers	Docker	

$> **ping**

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$> **work_experience**

Partheas CVBA, Belgium . lead_developer . since 2017

Currently working as a Lead Developer across Partheas' multiple healthcare & kiosk products. Primarily responsible for technological architecture, defining tech stacks, R&D, design & development of software, mentoring junior developers and managing deployments. As one of the earliest employees, I played a key role in paving a strong path for the company's core product line.

$> **projects**

VDAB Kiosk
- As a Lead Developer to a 4 member dev team, I've headed the product's technical architecture and development from the ground up.
- Built the foundational infrastructure backend using Java 11 Spring Boot backed by PostgreSQL, Redis, Keycloak, and Docker in a Linux (CentOS) environment.
- Along with the product manager, designed and implemented the database schema based on various requirements and the product's future roadmap.
- Built hardware integration software in Java 11 SE and Browser Native Messaging protocol that essentially communicates with a Thermal Printer and an E-ID card reader (to read out Belgian eid cards).
- Integrated VDAB's user management services with Keycloak using OAuth delegation and secured communication using JWT.
- Responsible for building a stable, scalable and reliable software, which was delivered successfully. The product now serves 50+ VDAB offices across Belgium concurrently without breaking a sweat!
- For the clouded backend and client side applications, I was responsible for setting up and securing servers on OVH environments.

FLOW - AZ Herentals and AZ Zeno
- Responsible for building a significant part of this hospital patient management system using Java 8 SE, VueJS, Google protocol buffers, RabbitMQ, PostgreSQL, Keycloak and Python.
- Built hardware integration software that seamlessly communicates with RFID & IR readers, eInk readers (ImagoTag), QR scan kiosks, Smart TVs, Thermal printers (CUSTOM VKP/Zebra) and smartphones.
- Designed and implemented the UI in VueJS with a keen eye on usability from the hospital management perspective.
- Actively involved in realizing the hospital's requirements and solving various day-to-day operational hurdles.
- Successfully integrated with the hospital's LDAP systems using Keycloak and secured application communication with JWT.

GIDS - AZ Herentals
- A cross platform mobile application for patients to keep track of their appointments built in Flutter (Dart).
- This app, for Android and iOS, integrates with FLOW via REST APIs and is backed by Dart's reactive streams.
- Took up complete ownership of this product from research to implementation. With a keen focus on stability, compatibility and UI/UX, this app was the first of its kind and well received.
- Built the backend FLOW's REST APIs (Java 8 SE & Jersey) and notification channels using RMQ & Firebase Cloud Messaging (FCM - Python).

Q - AZ Herentals, AZ Zeno, ASZ Aalst and CSF Chimay
- A patient ticketing system built in PHP Laravel backed by MySQL, WebSockets. HaProxy and Flutter.
- As a part of a 2-3 member dev team, I was responsible for designing and developing various integral components of this project.
- Primarily built hardware integration software to print out tickets for patients from Windows, RasberryPi and Android kiosks.
- Built the entire Websocket communication channel and microservice surrounding real-time notifications.

Palnws - https://palnws.be
- For an online news & media company, previously known as Sceptr, I was responsible for building their distributed server infrastructure on OVH cloud.
- Primary role was to establish their WordPress website, file system, caching layer & database services spread across multiple OVH servers, sitting behind a TotalUptime load balancer.
- As a high traffic website, focus was to always provide stable and high availability services with negligible downtime.

Singularity Healthcare IT, India . software_development_engineer . 2015 - 2017

Eclinic
- Analyzed requirements, designed application architecture for multiple modules and developed backend infrastructure using Java 8, Spring, Hibernate, RabbitMQ, MySQL and Jersey, on an AWS environment.
- Built scripts to automate deployment tasks, generate periodic reports and progress reports for operation and sale teams.
- Designed module architecture and developed precision bound features with zero margin of errors, such as Promotional Code and Doctor Billing,
- Interact with Web and Android Teams to discuss and optimize API endpoints based on product requirements and roadmap.
- Communicate with the Marketing Team to enable product seasonal/periodic promotional items, such as discounted pricing models.

Partheas TPL, India . software_developer . 2013 - 2015

FLOW - AZ Herentals
- Worked as a developer in a 4 member dev team in building this very first version of the patient management system for AZ Herentals.
- Was responsible for building the client side application using Ruby on Rails and the backend using Java 8 SE.
- Was also part of the testing team to develop a testing framework in JUnit and Selenium.

Parking management system - Randstad, Brussels
- Built using PHP Laravel and MySQL, this clouded product was used to keep track of cars parked in Randstad's parking lot and indicate vacant/occupied parking spots.
- As a part of a 2 member dev team, I was responsible for the backend and client side software, along with building stable Websocket communication.
- Was also responsible for deployments and maintenance of the product on a Linux (RHEL) environment.

$> **education**

Master of Science in Information Technology   2011 - 2013
International Institute of Technology, Hyderabad, India

Bachelor of Technology in Electronics & Computers Engineering   2006 - 2010
Sreenidhi Institute of Science and Technology

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