

# THOMAS MECHESSA

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## SOFTWARE ENGINEER

Seasoned senior software engineer with over 5 years of proven expertise in developing software solutions, specializing in end-to-end systems and RESTful API development. Worked in teams ranging from 3 to 7 members. A passionate learner committed to continuous growth, with a track record of leading cross-functional teams and consistently delivering high-quality code on schedule. Adaptable and forward-thinking, excelling in dynamic, fast-paced development environments.

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## SKILLS

**Languages:** JavaScript, TypeScript, Java ,Dart, Python

**Web:** HTML5, CSS3, JavaScript, AJAX, React, Next.js, Vue.js

**Web Services:** REST, SOAP, JSON, XML, Sockets

**Web/App Servers:** Nginx, Tomcat, Apache

**Frameworks:** Node.js, Express.js, Spring Core, Spring Web, SpringBoot, Java Persistence API, Java Message Service, React, Next.js, Vue.js, Flutter, Bootstrap, Tailwind, WordPress

**Databases:** MySQL, PostgreSQL, MongoDB, Cloud Firestore

**Design Patterns:** Dependency Injection, Inversion Of Control, Command, Strategy, Template, Observer, State, Composite, Iterator, Chain of Responsibility, Proxy, Adapter, Mediator, Factory, Builder, Singleton, Aspect Oriented Programming,

**SDLC:** Agile, Waterfall, Scrum, Kanban, Test Driven Development (TDD), Domain Driven Design (DDD)

**Tools:** Git, GitHub, Visual Studio Code, NPM, yarn, VITE, Atom, Postman, IntelliJ IDEA, PyCharm, Docker, Kubernetes, Jenkins, Figma, Jira, Trello

**Platforms:** Windows, Linux, MacOS

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## PROFESSIONAL EXPERIENCE

### Senior Software Engineer

April 2021 – Aug 2023

**Kin Ideas**, Addis Ababa, Ethiopia

- Implemented rigorous code review procedures, which decreased the number of post-release bugs by 13%.
- Conducted frequent knowledge-sharing sessions, which helped the team improve its collective expertise and skill set.
- Effectively oversaw a multidisciplinary team of four engineers, guaranteeing timely completion and meeting project objectives.
- Played a key part in creating four large-scale projects from design to completion utilizing a variety of tech stacks, including Django, Flutter, Express, and React.
- Designed and delivered a scalable and efficient architecture for multiple Kin Ideas' projects.
- Initiated and led regular meetings to identify areas for improvement in the development process.
- Proactively identified and resolved technical challenges during architecture design and implementation.
- Regularly analyzed the end to end request response cycle to identify and fix performance issues and decrease response time.
- Engineered tests for Mobile Applications, Web Applications, and RESTful APIs, ensuring test coverage and adherence to quality standards.

- Facilitated onboarding and conducted training sessions for new and junior team members, ensuring a smooth integration into the development team and providing essential insights into project workflows and best practices.
- Actively contributed to Agile development methodologies, participating in sprint planning, daily stand-ups, and sprint reviews to ensure project milestones were met.

**Technologies Used:** *Flutter, Dart, JavaScript, TypeScript, React.js, Express.js, Mongoose, MongoDB, Firebase, Python, Django, Django Rest Framework, PostgreSQL, Flutter Test, Jest, Cypress, Docker, Git, GitHub, VS Code, Swagger, Postman, HTML, CSS, Tailwind, Material UI, Jira, Trello, Clickup*

## **Software Engineer**

Oct 2022 – Feb 2023

**Mohas Technologies,** Addis Ababa, Ethiopia (Contract)

- Contributed to key projects focused on Mobile Application Development, actively engaging in the design and implementation phases.
- Built engaging and responsive user interfaces using Flutter components, ensuring a seamless and visually appealing mobile experience.
- Employed the BLOC pattern for effective state management within the mobile applications, enhancing code organization and maintainability.
- Utilized RESTful APIs to integrate crucial functionalities into mobile applications, ensuring seamless communication with backend services.
- Regularly presented project progress and updates during daily standup meetings, fostering transparent communication and alignment within the development team.

**Technologies Used:** *Flutter, Dart, Git, GitLab, VS Code.*

## **Full Stack Developer**

July 2018 – June 2021

**Jersuma Trading** Addis Ababa, Ethiopia

- Pioneered responsive and user-friendly interfaces using frontend technologies, including HTML, CSS and React by collaborating closely with UI/UX designers.
- Designed, Developed and optimized RESTful APIs to facilitate seamless communication between frontend and backend components using Express.js, Node.js and SpringBoot.
- Prepared documentation for RESTful APIs, offering clear insights into endpoints, data models, and usage guidelines to facilitate seamless integration and collaboration among cross-functional teams.
- Consuming RESTful APIs: Integrating APIs into frontend applications to fetch and send data asynchronously using JavaScript (AJAX), React.js and Flutter.
- Modernized a legacy PHP system with Express.js, improving efficiency, scalability, and aligning with current web development standards.
- Collaborated directly with clients to understand requirements, gather feedback, and implement features that met business needs and user expectations.
- Delivered a GitHub action pipeline, reducing deployment time by 30% and lowering the number of system bugs by 20%, resulting in a more efficient and reliable deployment process.
- Implemented cross-functional collaboration, delivering excellent code on time and contributing to fast-paced development environments, resulting in accelerated project completion and promotion within 1 month of getting hired.

**Technologies Used:** *HTML CSS, JavaScript, AJAX, Java, SpringBoot, Java Persistence API, Express.js, React.js, Flutter, Dart, MongoDB, MySQL Git, GitHub, VS Code, IntelliJ IDEA, Maven, Bootstrap*

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## EDUCATION

### **Master of Science in Computer Science**

Maharishi International University, Fairfield, Iowa, USA

### **Bachelor of Science in Software Engineering**

Addis Ababa Institute of Technology, Addis Ababa, Ethiopia

Honors graduate with Great Distinction