

# HAMIM HASAN IFTY

Software Engineer

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Full-Stack Software Engineer with 2+ years of experience developing scalable web applications and native mobile solutions using React, Node.js, and Kotlin. Proven ability to optimize application performance and deliver production-ready systems for EU-funded projects and enterprise clients. Strong expertise in RESTful API development, database optimization, cloud deployment, and Agile methodologies. Committed to writing clean, maintainable code and implementing best practices.

## TECHNICAL SKILLS

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**Languages:** JavaScript (ES6+), TypeScript, Kotlin, Java, Python  
**Frontend:** React, React Native, HTML5, CSS3, Bootstrap, Material-UI, Responsive Design  
**Backend:** Node.js, Express.js, REST APIs, JWT Authentication, Microservices  
**Mobile:** Android SDK, Kotlin, MVVM Architecture, Material Design  
**Databases:** PostgreSQL, MongoDB, MySQL, Database Optimization  
**Tools & Cloud:** Git, GitHub, Azure, Auth0, Android Studio, Postman, Linux, Agile/Scrum

## PROFESSIONAL EXPERIENCE

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**Web Developer** Jan 2025 – Aug 2025  
*MailSped* Oulu, Finland

- Engineered high-performance web application features using Next.js, reducing page load times by 35% through code optimization, lazy loading, and efficient state management with Redux
- Architected scalable data flow architecture supporting 1000+ concurrent users with real-time synchronization, implementing WebSocket connections and optimized database queries
- Improved API response times by implementing asynchronous processing, caching strategies, and database connection pooling for better application performance
- Developed reusable component library following atomic design principles, reducing development time by 25% and ensuring UI consistency across the application
- Collaborated with cross-functional teams in Agile environment, participating in daily standups, sprint planning, and code reviews to maintain high code quality standards

**Full Stack Developer** May 2025 – Sep 2025  
*Machine Vision Solution* Oulu, Finland

- Led frontend development for EU-funded enterprise image database ERP system using React and TypeScript, serving 500+ daily users with complex data visualization and management features
- Optimized PostgreSQL database performance by 60% through advanced query optimization, indexing strategies, and implementing efficient data retrieval patterns for large-scale image operations
- Built robust RESTful API integration with Express.js handling image uploads, metadata processing, and search functionality, maintaining 99.9% uptime throughout project lifecycle
- Implemented secure JWT-based authentication system and role-based access control (RBAC) to protect sensitive enterprise data
- Integrated machine vision APIs with frontend interface, enabling automated image recognition and classification features for warehouse management

## PROJECTS

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**Movie Application - Collaborative Team Project**  
*Tech Stack:* React, Node.js, Express.js, PostgreSQL, Bootstrap, TMDB API, Azure, GitHub Actions

- Collaborated with 6-member development team to architect and deploy full-stack movie browsing platform with user authentication, social features, and review system
- Developed responsive frontend components using React and Bootstrap, integrating TMDB API for real-time movie data, ratings, and trending content with infinite scroll pagination

- Built scalable Node.js REST API backend with PostgreSQL database supporting user registration, authentication, group creation, favorites management, and movie reviews
- Implemented comprehensive testing strategy with unit tests and integration tests, achieving 85% code coverage and ensuring application stability
- Deployed production-ready application on Microsoft Azure with automated CI/CD pipeline using GitHub Actions, enabling seamless deployments and rollbacks
- Designed and implemented database schema with normalized tables, foreign key relationships, and optimized queries documented in ERD diagram

### **BookKeeper - Book Management Android App (Team Project)**

*Tech Stack:* Kotlin, Android SDK, MVVM, Node.js, Express.js, MongoDB, Auth0, Room Database

- Collaborated with 3-member team to develop native Android application helping users organize, track, and manage book collections with role-based responsibilities (Frontend Developer)
- Engineered complete frontend using Kotlin and MVVM architecture following Material Design guidelines, implementing intuitive UI/UX for book tracking, statistics, and history features
- Integrated Auth0 authentication system for secure user login and logout functionality, ensuring data privacy and user session management
- Implemented Room Database for local data persistence and synchronized with Node.js/Express.js backend API using MongoDB for cloud storage
- Designed multiple screens including splash, login, home, add book, history, and statistics with smooth navigation and user flow optimization
- Managed project workflow using GitHub Projects board for tracking tasks, coordinating with team members, and maintaining code quality through pull requests and code reviews

## **EDUCATION**

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### **Bachelor of Engineering in Information Technology**

2024 – Present (3rd Year)

*Oulu University of Applied Sciences*

*Oulu, Finland*

**Relevant Coursework:** Data Structures & Algorithms, Web Technologies, Mobile Application Development, Database Systems, Parallel Computing, Software Engineering