

Md. Atiar Rahman

Full Stack Software Engineer

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Summary

Full Stack Software Engineer with 3+ years building payroll, HR, accounting, inventory and retail ERP systems with Angular, TypeScript, Node.js and PostgreSQL, used by government bodies, a public university and private companies in Bangladesh. Led a team of 4 engineers on a payroll system that pays 1,500 employees and cut monthly payroll work from a week or more to a few hours. Built three ERP products alone, from client meetings to production. Works in Agile and Scrum across the full software development life cycle. Moved into software from civil engineering.

Technical skills

Frontend: Angular (14 to 21, Signals, standalone components), TypeScript, JavaScript, RxJS, HTML5, CSS3, NG-ZORRO, PrimeNG, Angular Material, Tailwind CSS, Bootstrap 5, Leaflet

Backend: Node.js, Hapi.js, Python, Go, REST APIs, JWT, role-based access control, TypeORM

Mobile: Flutter, Dart

Databases: PostgreSQL, PL/pgSQL, Oracle Database, PostGIS, Flyway

Reporting: JasperReports, Jaspersoft Studio, ExcelJS

DevOps and tools: Docker, Docker Swarm, Nginx, GitLab CI/CD, Linux, Bash, Git, Postman, DBeaver

Methods: Agile, Scrum, full software development life cycle

Familiar with: NestJS, Express.js, Redis, Highcharts, Chart.js, Jest, Mocha, Chai

Experience

Celloscope Ltd., Dhaka

Full Stack Software Engineer

Jan 2026 - Present

- Deliver full-stack ERP features in Angular, Node.js (Hapi.js) and PostgreSQL for government and enterprise clients across the lifecycle: proposals, requirements, estimation, development, release and user support.
- Led the Angular 14 to 21 upgrade, reworked slow legacy code and built an in-app notification system.
- Lead 2 developers on a web and mobile bookkeeping and POS product.

Junior Software Engineer

Jan 2024 - Dec 2025

- Led a team of 4 engineers on a university payroll and personnel system as the client's main technical contact.
- Built rice mill, retail and wholesale ERP products alone, from client meetings and requirements to production.
- Shipped weekly production releases in a 20-person Agile and Scrum engineering team, coordinated releases and server hardening with DevOps, and wrote end-user release notes.

Software Engineer Intern

Sep 2023 - Dec 2023

- Started on the Office Management ERP in Angular and TypeScript, and stayed on it through every later role.

Key Projects

Built at Celloscope. Client names are withheld to respect confidentiality.

University Payroll and Personnel System

2024 - 2026

Led a team of 4. Angular, Hapi.js, PostgreSQL, JasperReports

- Built a rule-based salary engine for 1,500 employees under government pay rules, cutting monthly payroll work from a week or more to a few hours.
- Delivered personnel records, accounting, provident fund, pension, allowances, increments, promotions and approval workflows.
- Added an employee portal for salary and tax details, QR codes on payslips, and bank-ready salary reports.

Office Management ERP

2023 - Present

Technical owner. Web, PWA and Android. Angular, NG-ZORRO, Hapi.js, PostgreSQL, PostGIS, Docker Swarm, GitLab CI/CD

- Runs in 3 organisations, including 8 branches and 5 vendors at one government body, with about 70 reports.
- Built attendance with GPS geofencing on PostGIS, leave, employee portal, and a four-stage performance appraisal module and schema.
- Worked across accounting, inventory requisition and allocation, projects, task boards and timesheets.

Rice Mill Production and Costing ERP

2025 - Present

Built alone, from client meetings to production. Angular, NG-ZORRO, Hapi.js, PostgreSQL, JasperReports

- Tracks paddy from purchase through drying, warehouse and production, including weight loss, by-products, supplier dues and sacks.
- Turned lot-wise profit and loss from constant manual calculation into a report generated in seconds.

High-Volume Retail ERP and Mobile App

2025 - Present

Built alone, from client meetings to production. Angular, NG-ZORRO, Hapi.js, PostgreSQL, JasperReports. System in use since 2023

- Serves 300 to 400 customers and BDT 12 to 15 lakh in transactions a day.
- Automated invoicing, warehouse challans, returns, cash book and reconciliation, and supported a lightweight mobile selling app.

Wholesale Distribution ERP

2025 - Present

Built alone, from client meetings to production. Angular, NG-ZORRO, Hapi.js, PostgreSQL, JasperReports. System in use since 2024

- Reconciles stock across warehouses, purchases, sales and 15 bank accounts for a nationwide wholesaler, with double-entry accounting.
- Migrated old records so the history goes back to the first day of business.

Government Office Inventory System

2024 - 2026

Built top to bottom. Angular, NG-ZORRO, Hapi.js, Oracle Database, JasperReports

- Built the full inventory system: requisitions, approvals, allocation, dispatch, returns, suppliers, warehouses, dashboards and reports.

SMS and Email Gateway

Frontend and dashboard. Angular, NG-ZORRO

- Used by 15 to 20 companies, sending about 1.5 to 2 million SMS a month, with provider registration, access keys and delivery, failure and retry tracking.

Bookkeeping and POS App

2026 - Present

Leading 2 developers. Hapi.js, PostgreSQL, Flutter. In development

- Web and mobile app for shopkeepers: sales, dues, cash, mobile and bank accounts, POS and a double-entry ledger.

Other systems

- **Multi-branch purchasing and inventory (2024 to 2025):** requisitions, quotations, purchases and delivery across branches nationwide.
- **Care home inventory (2025, pro bono):** stock, expiry dates, resident allocation, returns and purchases.

Earlier Experience

Rana Construction and Condominium Ltd, Dhaka

Sub-Assistant Engineer to Senior Assistant Engineer (Civil), Sep 2017 - Aug 2023

Led site engineering, guided junior engineers, and prepared estimates, bills and AutoCAD drawings.

Education

Diploma in Engineering, Civil Technology, Khulna Polytechnic Institute, 2015

Secondary School Certificate, GPA 5.00, Raj Textile High School, Jessore, 2011

Languages

Bangla (native), English (professional), Hindi (conversational)