

# Rocktim Saikia

+91-7002062164 | [hey@rocktim.dev](mailto:hey@rocktim.dev) | [rocktim.dev](https://rocktim.dev) | [linkedin.com/in/rocktimsaikia](https://linkedin.com/in/rocktimsaikia) | [github.com/rocktimsaikia](https://github.com/rocktimsaikia)

## EDUCATION

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### Anuva Academy

Bachelor of Engineering in **Computer Science (B.E. CSE)**

Guwahati, Assam

Aug 2018 – May 2021

## EXPERIENCE

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### Codingal, YC W21

Senior Software Engineer

Bangalore, India

April 2021 – Present

- Architected global payment infrastructure integrating multiple payment gateways (Stripe, PayPal) with webhook event handling and Celery distributed task queue management to achieve 100% secure payment processing.
- Developed automated backup solution for self-hosted Redash on AWS EC2 using Python scripting and Bash automation, implementing GitHub repository storage for database backups and disaster recovery.
- Built custom commenting system using Firebase Firestore, React.js, and WebSocket real-time connections, replacing third-party SaaS solution and reducing operational costs by \$1,200 annually.
- Implemented full-stack authentication system using Django REST Framework and Next.js, featuring JWT token management, bcrypt password hashing, email verification, and CSRF protection.
- Developed AI-powered report generation system integrating OpenAI GPT models via REST API and Python, automating customer progress reports and reducing manual workflow time by 80%.

### Maytree School Of Entrepreneurship

Founding Engineer

Remote

Jun 2020 – Dec 2020

- Built complete web application from scratch as founding engineer, architecting full-stack solution using Node.js (Express.js) and Handlebars.js templating engine for dynamic HTML generation and server-side rendering.
- Developed comprehensive authentication system implementing bcrypt password hashing, session management, and role-based access control with secure login/logout functionality and user validation middleware.
- Engineered RESTful API endpoints and database integration using Express.js routing, implementing CRUD operations, request validation, and error handling for scalable backend architecture.
- Established development infrastructure and deployment pipeline, setting up version control, environment configuration, and production deployment strategies for startup launch readiness.

### Listiee

Software Engineering Intern

Remote

Jan 2020 – Mar 2024

- Developed responsive web applications using React.js with JavaScript ES6+, implementing component-based architecture, state management with React hooks, and dynamic user interfaces for enhanced user experience.
- Built front-end components using HTML5, CSS3, and Bootstrap framework for cross-browser compatibility and mobile-responsive design, ensuring optimal performance across desktop and mobile devices.

### Github

Open Source Contributor

Remote

2020 - 2023

- Contributed to AICommits CLI tool (17k+ stars) - AI-powered Git commit message generator using OpenAI GPT-3, implementing 3 new command-line flags and resolving critical issues for enhanced developer workflow automation.
- Enhanced TinyHTTP web framework (7k+ stars) by implementing IP address detection features, adding CouchDB integration examples, Git hooks setup using Husky for CI/CD workflow.
- Refactored Sindre Sorhus's shell-history project by converting string-based parsing to options-based architecture, implementing advanced path filtering algorithms for cross-platform shell compatibility, and adding comprehensive test coverage with fixture-based testing framework.

## PROJECTS

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**Animechan** | Website [↗](#), Code [↗](#)

Node.js, Express.js, TypeScript, Prisma ORM, MySQL, Redis, PM2, Sentry

- Developed RESTful API service using Node.js with Express.js framework, TypeScript, and Prisma ORM for database management, implementing rate limiting with Redis.

- Built scalable backend architecture with PM2 process management, API authentication middleware, CORS configuration, and security hardening using Helmet.js.
- Integrated monitoring and logging systems using Morgan middleware, Sentry error tracking, health check endpoints, and webhook functionality for external service integrations.

#### Day In History | [Website](#) ↗

*Django, Python, Next.js, SQLite, Redis, Tailwind CSS, Supervisor, Nginx, Sentry, Gunicorn*

- Built full-stack historical data platform using Django REST Framework backend with PostgreSQL database, Next.js frontend with TypeScript, and Tailwind CSS for responsive UI components.
- Implemented AI-powered content generation system integrating Anthropic Claude API for automated biographical content creation and custom Django management commands for data pipeline automation.
- Deployed production application using Supervisor process management, Nginx reverse proxy, automated deployment scripts, and error monitoring using Sentry integration.

#### Toolbox | [Website](#) ↗ , [Code](#) ↗

*Next.js 15, React 19, TypeScript, Tailwind CSS, CodeMirror, Radix UI, Netlify, JSON Schema*

- Created developer utilities web application using Next.js 15 with React 19, TypeScript, and Tailwind CSS, implementing 8+ productivity tools including JSON-to-TypeScript converter and password generator.
- Built interactive code editor components using CodeMirror library with JavaScript and JSON syntax highlighting, schema validation, and real-time data transformation.
- Deployed static site with Netlify CI/CD integration, SEO optimization with dynamic sitemap generation, and responsive design using Radix UI components.

#### Cambd | [Code](#) ↗

*Python, BeautifulSoup4, SQLite3, Web Scraping, PyPI, Command Line Interface*

- Built Python CLI application using Click framework for Cambridge Dictionary word lookups, implementing web scraping with BeautifulSoup4 for real-time dictionary data extraction without external APIs.
- Published open-source Python package to PyPI with pip/pipx installation support, command-line argument parsing, and cross-platform compatibility for terminal-based dictionary access.

## TECHNICAL SKILLS

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**Languages:** JavaScript, TypeScript, Python, Go, SQL , HTML/CSS

**Libraries/Frameworks:** Django, DRF, React, Next.js, Express, Node.js, Tailwind, Mongoose, GraphQL, REST, Jest

**Tools:** Docker, Git, Vim, Tmux, Amazon EC2, Digitalocean, MongoDB Atlas, Firebase, VS Code, CI/CD

**Databases:** MongoDB, Firebase Firestore, MySQL, Redis