

# Abiy Hailu Getachew *software engineer*

 abi556 |  abiy-hailu |  abiy.dev |  contact@abiy.dev |  +(251)929501645

## PROFILE

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Software engineer focused on building reliable, scalable systems across web and mobile, with 2+ years of end-to-end delivery as a full-stack engineer. I build performant applications and services from prototypes to production-scale deployments, emphasizing clean architecture and efficient, maintainable solutions.

## EDUCATION

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**Bsc. Software Engineering (AI Stream), Addis Ababa University** Sep 2022 – Present  
Addis Ababa, Ethiopia | [aau.edu.et](http://aau.edu.et)

- One of the [top 10 universities in Africa](#)
- CGPA: 3.8/4, Top 3% of class
- Relevant Coursework: Data Structures & Algorithms, Web & Mobile Application Development, Database Systems, Object-Oriented Programming, Machine Learning

**Cisco Networking Academy — Instructor-led (SITE, AAU)** Jan 2024 – Dec 2024  
Addis Ababa, Ethiopia | [netacad.com](http://netacad.com) | [Credly \(Public Certifications\)](#)

- Industry-recognized Cisco training with hands-on labs in network/security, Linux, and Python
- Completed *Junior Cybersecurity Analyst Career Path* and core courses: Introduction to Cybersecurity, Networking Essentials, Linux Fundamentals, Python Essentials 1–2
- Earned 6 Cisco-issued digital credentials (publicly verifiable), practiced threat detection, access control, and secure scripting

**INSA Cyber Talent Summer Camp, INSA (Ethiopia)** July 2025 – October 2025  
Addis Ababa, Ethiopia | [talent.insa.gov.et](http://talent.insa.gov.et)

- [INSA](#), Ethiopia's national premier cybersecurity agency's intensive talent development program that has trained 500+ cybersecurity professionals in advanced threat detection, digital forensics, and national security protocols
- Completed over 300+ hours of hands-on training in cybersecurity fundamentals, ethical hacking, and digital forensics, and successfully completed 15+ individual and team projects including a comprehensive final graduation project

## SKILLS

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**Programming languages** — Python, TypeScript, JavaScript, Java, Kotlin, Dart, HTML, CSS, SCSS, Go

**Frameworks/Libraries** — Vue.js, React, NestJS, Next.js, Express.js, Tailwind CSS, Three.js, NumPy, Pandas, Matplotlib

**Databases** — PostgreSQL, MySQL, MongoDB, SQLite

## EXPERIENCE

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**Freelance Full-Stack Developer (Remote)** 2024–Present  
Addis Ababa, Ethiopia | [Upwork Profile](#) | Direct engagements (social media, in-person)

- Delivered 5+ production features and 3 greenfield apps across Next.js/NestJS/Flutter/Jetpack Compose/Three.js, improving end-user engagement by 35% via faster UX flows and modern UI.

- Built secure, scalable backends (NestJS, PostgreSQL, Prisma) with JWT/RBAC, rate limiting, and rigorous DTO validation; reduced auth-related errors by 60% and P95 API latency by 28%.
- Shipped responsive, accessible frontends (Next.js 14, Vue 3, Tailwind, [shadcn/ui](#), Radix UI) with form validation and error states; decreased drop-offs on key funnels by 22%.
- Led client discovery, scoping, and delivery (weekly demos, CI-ready repos, clear docs); achieved 95%+ on-time milestone completion and repeat business from 70% of clients.
- Provided mentoring and code reviews for junior collaborators (Python/TypeScript/Flutter), raising delivery quality and cutting defect rates by 30%.

## PROJECTS

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### SEKUR — Cybersecurity Learning Platform

Jan 2025 – Present

[sekur.vercel.app](#) | [Frontend \(Next.js\)](#) | [Backend \(NestJS\)](#)

- Led full-stack development: Next.js 14 (Radix UI, Tailwind), NestJS (PostgreSQL, Prisma), JWT auth, RBAC
- Built lesson, quiz, progress, leaderboard, and admin CMS modules; integrated AI “Ask SEKUR”

### Research Collaboration App — Android (Jetpack Compose) & Flutter

2024

[Flutter App](#) | [Android App](#)

- Project lead/manager; owned frontend delivery for Flutter and Jetpack Compose apps across 3 roles (Admin, Professor, Student)
- Built end-to-end UI flows for project CRUD, participation requests, approvals, and rich user profiles
- Established component architecture, navigation, state management, input validation, and error/reporting UX

### Ge’ez Calc — React, TypeScript & Tailwind CSS

2025

[Live Demo](#) | [GitHub Repository](#)

- Implemented a fully interactive Ethiopian calendar dashboard featuring a modern UI, dual Ge’ez/Arabic numeral display, and scalable architecture for future feature integration
- Engineered a robust utility platform with bidirectional Ge’ez numeral conversion, a Gregorian-to-Ethiopian date converter, and dynamic holiday integration
- Designed a modern, accessible UI with a dedicated educational hub, offering interactive modules on Ge’ez numerals, the 13-month calendar system, and cultural timekeeping

## ACHIEVEMENTS

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### Ethiopian University Entrance Exam

- Top 500 among  $\approx 900,000$  students nationally
- Ranked among top 50 in my regional state

### INSA Cyber Talent Summer Camp

- Successfully completed intensive cybersecurity training program with distinction
- Demonstrated exceptional performance in individual and team projects
- Achieved comprehensive understanding of advanced threat detection and digital forensics