

Dires Abebe Abatieneh

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EDUCATION

Williams College – Williamstown, MA, USA

Expected Graduation: May 2028

Majors: Computer Science, Mathematics

Deans list (All semesters)

Relevant Coursework: Data Structures & Algorithms (Java), Artificial Intelligence, Computer Organization, Discrete Mathematics, Calculus III, Logic & Language, Data Analysis & Statistics

SKILLS

- **Languages:** Python, Java, C#, JavaScript, TypeScript, SQL, R
- **Frameworks & Tools:** NumPy, Pandas, React.js, Node.js, Express.js, MongoDB, Docker, REST API, Git
- **Core Knowledge:** Algorithms & Data Structures, Machine Learning, Distributed Systems, Numerical Optimization, Probability & Statistics, Software Engineering Principles

EXPERIENCE

Software Engineer Intern – Guba Technologies | Addis Ababa, Ethiopia

May - Aug 2025

- Implemented scalable fraud-detection microservices in .NET (C#) and optimized complex PostgreSQL queries, boosting ML model accuracy by 12% and improving transaction risk-flagging efficiency for the finance team.
- Shipped a real-time parking module with React.js, Socket.io, and Stripe, reducing driver wait times by 25% in a sprint.
- Collaborated in a 6-member Agile team to resolve deployment issues and present progress to stakeholders, enhancing reliability

Teaching Assistant – Intro to Computer Science | Williams College

Fall 2025 – Present

- Assist 40+ students weekly with Python, algorithms & debugging, reinforcing core concepts like loops, recursion, & DSA.
- Collaborate with professors to design problem sets, grade assignments, and provide feedback to improve learning outcomes.
- Lead lab sessions & office hours, fostering an environment that helps students develop strong computational thinking skills.

API Fellow – Keploy API Fellowship | Remote

June - Aug 2025

- Selected as 1 of 1,000 fellows (top 5%) from 18,500+ applicants worldwide for the Summer 2025 Keploy API Fellowship.
- Built, deployed production-grade APIs with Keploy for mocking, testing, and observability, improving developer reliability.
- Collaborated with a distributed global team and contributed to open-source projects enhancing API quality and DX.

PROJECTS

CipherChat – (React Native, Socket.io, AES Encryption)

- Built a full-stack encrypted messaging app with AES-based end-to-end encryption and JWT authentication.
- Optimized message handling and socket performance to ensure real-time reliability under concurrent user load.

CampusXchange – (Java, Swing, File I/O)

- Designed a GUI-based marketplace for textbook exchange, using OOP design patterns and persistent file storage
- Implemented efficient search and filtering algorithms for smooth user experience and low-latency retrieval.

Algorithmic Trading Simulator – (Python, NumPy, Matplotlib)

- Built a basic trading simulator accurately modeling dynamic price movement using moving averages & RSI-based signals.
- Backtested trading logic extensively on historical datasets to analyze profitability, volatility sensitivity & performance trends

LEADERSHIP & CAMPUS INVOLVEMENT

President – Ethiopian & Eritrean Students Association @ Williams

2024 – Present

- Lead a 20-member board to organize cultural and networking events promoting community and representation on campus.

Even coordinator – Williams Orthodox Christian Students Association

2025 – Present

- Plan and coordinate student gatherings, church visitations, discussions, and service events fostering faith and fellowship

Board Member – Black in STEM Board Member

2024 – 2025

- Support mentorship, outreach, and academic initiatives empowering underrepresented students in STEM fields.

FELLOWSHIPS

• Code2040 Fellow – Advancing equity in tech through mentorship, leadership, and career development

Sep 2025-present

• AI4All Ignite Fellow – Applying AI for social good through projects and collaboration

Sep 2025-present

• Harvard Aspire Leaders Program – global leadership and social impact cohort

Spring 2025