Danial Ahari

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Education

- **University of Alabama in Huntsville - Huntsville, Alabama**
  Anticipated Graduation Date: 2026
  Current GPA: 3.25
  Program: Master of Science in Computer Science

- **University of Alabama in Huntsville - Huntsville, Alabama**
  Graduated: 2025
  Honours: Magna Cum Laude
  Final GPA: 3.71
  Program: Bachelor of Science in Computer Science, minor: Mathematics, certificate: German

- **Limestone County Career Technical Center - Athens, Alabama**
  Graduated: 2021
  Final GPA: 4.00
  Program: IT Programming

Work Experience

- **Siemens DISW (May 2025-Present)**
  - **Title: Strategic Student Co-Op**
  - Works on an Agile software development team to produce and test CAD software.

- **UAH Archives (October 2021-May 2025 [During School Year]) - Huntsville, Alabama**
  - **Title: Student Specialist IV**
  - Gathers and organizes data from physical and digital archival mediums, using Google Docs and Sheets.

- **Greg Cooper Lab at HudsonAlpha Institute for Biotechnology (May 2024-July 2024) - Huntsville, Alabama**
  - **Title: Computational Research Intern**
  - Programmed and performed analyses to support novel methodologies for analyzing whole genome assemblies and structural variants therein.

- **UAH RCEU Program (May 2023-August 2023) - Huntsville, Alabama**
  - **Project: Host-Based CD-ROM Data Recovery**
  - Worked to develop new methods of data recovery from optical discs using host-based software technologies.

- **Computer Science Department at UAH (September 2022-December 2023 [During School Year]) - Huntsville, Alabama**
  - **Title: Student Specialist or Undergraduate Teaching Assistant**
  - Previously graded papers and proofread documentation related to assignments from a professor; Acted later as a research and office assistant for a professor.

- **UAH RCEU Program (May 2022-August 2022) - Huntsville, Alabama**
  - **Project: University History Walking Tour and Timeline**
  - Used web development skills to build a basic web app to record University of Alabama in Huntsville Campus History.

- **Computer Science Department at UAH (November 2021-January 2022) - Huntsville, Alabama**
  - **Title: Student Specialist**
  - Wrote Javascript code implementing the d3.js and React libraries to create visualizations.

Research Projects and Publications

- **Comparison of Assembly-Based Structural Variant Callers**
  - Other authors: Zach Bonnstetter, Lori Handley, James Lawlor, Greg Cooper
  - Type of publication: Poster
  - Presentation date: 07-26-2024

- **Host-Based CD-ROM Data Recovery**
  - Other authors: Jacob Hauenstein
  - Type of publication: Poster
  - Presentation date: 09-13-2023
  - Publication date: 09-01-2023
  - Link: https://louis.uah.edu/rceu-hcr/413

- **Campus History WebApp - Timeline**
  - Other authors: Drew Adan, Christine Sears
  - Type of publication: Poster
  - Presentation date: 09-14-2022
  - Publication date: 09-01-2022
  - Link: https://louis.uah.edu/rceu-hcr/379

Selected Coursework

- Analysis of Algorithms (Graduate) - B
- Software Engineering (Graduate) - A
- Programming Languages (Graduate) - A
- Computer Graphics - B
- Computer Architecture - A
- Unix/Linux Programming - A
- Statistics - A
- Foundations of Mathematics - A

Studied Programming Languages

- C/C++ (Class)
- Java (Class)
- Python (Internship)
- Ruby (Class)
- Julia (Class)
- Visual Basic and Visual Basic Script (Independent)
- Batch scripting (Independent)
- HTML and CSS (Independent)
- ARM Assembly (Class)
- Bash Scripting (Internship)

Certifications

- Atlassian Agile Project Management Professional Certificate - June 2025
- Career Essentials in Software Development (Microsoft) - June 2025
- Career Essentials in System Administration (Microsoft) - June 2025
- Career Essentials in GitHub Professional Certificate - May 2025
- Docker Foundations Professional Certificate - May 2025
- Microsoft Security Essentials Professional Certificate - May 2025
- ServiceNow IT Leadership Professional Certificate - May 2025
- Ubuntu Linux Professional Certificate by Canonical - May 2025
- IBM Z Xplore Advanced - June 2023
- IBM Z Xplore Concepts - June 2023
- Alabama Certified Work - May 2021
- MTA: Introduction to Programming using Java - May 2021
- MTA: Introduction to Programming Using JavaScript - May 2021
- MTA: Mobility and Device Fundamentals - May 2021
- MTA: Windows Operating System Fundamentals - May 2021
- MTA: Windows Server Administration Fundamentals - May 2021
- TestOut PC Pro Certification - May 2021
- MTA: Software Development Fundamentals - February 2021
- Microsoft Office Specialist: Expert - November 2020
- MTA: HTML5 Application Development Fundamentals - September 2020

Links to credential verification can be found on LinkedIn.

Languages

- English (Native)
- German (Learned - Approx. B1 or B2)

Volunteer Work

- **Student Mentor at Athens Renaissance School (September 2019 -May 2021)**
  - Assisted and mentored at a middle school during high school years.

Relevant Honours

- President's List (Spring 2024) at University of Alabama in Huntsville
- President's List (Fall 2023) at University of Alabama in Huntsville
- First Place at UAH CS Expo (2023) for *Host-Based CD-ROM Data Recovery*
- President's List (Spring 2023) at University of Alabama in Huntsville
- Dean's List (Fall 2022) at University of Alabama in Huntsville
- Dean's List (Spring 2022) at University of Alabama in Huntsville
- Dean's List (Fall 2021) at University of Alabama in Huntsville

Honour Societies

- Society for Collegiate Leadership and Achievement (since June 2023)
- Alpha Lambda Delta (since April 2023)
- National Society of Leadership and Success (since November 2022)