

Ellen Kidane

EDUCATION

University of Illinois at Chicago (UIC), Chicago, IL
Joint Bachelor of Science and Master of Science in Computer Science
Minor in Bioengineering

Graduation: May 2021
GPA: 4.00/4.00

EXPERIENCE

Lecturer, Department of Computer Science, UIC Effective August 2021

- Instruct two classes of 90 students each (Discovering Computer Science and Program Design II)

Teaching Assistant, Department of Computer Science, UIC August 2018-Present

- Collaborate on curriculum and occasionally lead class lecture sessions
- Organize and lead multiple classes of 20-30 students each on lab assignments
- Hold office hours to answer any additional questions regarding specific concepts or homework assignments
- Grade weekly assignments and programming projects

Student Researcher, Bitslab, UIC August 2020-May 2021

- Develop features that enable instantaneous browser updates without loss of data or state through a Multi-Version eXecution(MVX) approach for JavaScript applications
- Co-authored “Dynamic Software Updates for Unmodified Browsers through Multi-Version Execution” (currently under review, submitted April 2021)

Software Engineer Intern, Rally Health May 2020-August 2020

- Responsible for the implementation of the front-end of an internal application used to display user transaction information and enable simple activation or de-activation of the team’s product

Software Engineer Intern, Rally Health May 2019-August 2019

- Implemented two tools to be used internally by engineers within the company to reset data of test users and display information to test new features and analyze data more easily, making use of the Play framework in Scala for the backend and React.js and Angular for the frontend
- Practiced agile scrum methodologies by participating in daily standup meetings and biweekly planning sessions

Student Researcher, Computational Population Biology Lab, UIC June 2018-December 2020

- Analyzed data gathered from Flickr, Twitter, iNaturalist, and YouTube images/videos via APIs in Python to discover biases that arise when using such images in estimations of wildlife population sizes

Fermilab TARGET Program, Batavia, IL July 2016-August 2016

- Wrote an iPython Notebook to aid people all over the world in learning about what supernovas are, the different types of supernovas, and how to calculate the distance from the Earth to a supernova

HONORS AND AWARDS

- Dean’s List (May 2020, December 2019, May 2019, December 2018, May 2018, December 2017)
- CME Group Foundation Scholarship Recipient (August 2019 – May 2020)
- UIC President’s Award Program (August 2017 – May 2020)
- National AP Scholar (July 2017) and AP Scholar with Distinction (July 2016, July 2017)
- US Presidential Scholars Candidate (February 2017)

TECHNICAL KNOWLEDGE

Languages: C/C++, Python, Java, JavaScript, Arduino, MATLAB, HTML/CSS, React.js, Solidworks, Scala, Angular, SQL, F#

Tools: GitHub, JIRA, Jenkins

ACTIVITIES

Writing Center Tutor, UIC

Sept. 2018-May 2019

- Assisted students by means of one-on-one discussions and critical thinking with various stages of the writing process

Kids Are Scientists Too, UIC

Sept. 2017-Dec. 2018

- Designed STEM-based lesson plans, as a member of the Lesson Plan Committee, and teach them to elementary-school children; create interactive worksheets to be used by volunteers to accompany the activity in the lesson plan

Jehovah's Witnesses

Sept. 2016-Present

- Volunteer 70 hours every month to improve others' lives through a global Bible education program