

Benjamin Darnell

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Doctoral student in Computer Science seeking temporary work involving hands-on labor in agriculture or sustainability sectors, to complement research in Artificial Intelligence.

WORK EXPERIENCE

Graduate Research Assistant

School of Computing, UIUC

Sept. 2022–Present

Urbana, IL

- Developing techniques to train AI code generation models for low-resource programming languages, with applications in IT automation and agriculture.
- Co-authored [An Empirical Comparison of Code Generation Approaches for Ansible](#), presented at InteNSE '24 (ACM/IEEE).

Teaching Assistant

School of Computing, UIUC

Sept. 2023–Jan. 2024

Urbana, IL

- Developed course material, graded papers, and tutored students in advanced Compilers course.

Software Engineering Intern

Jobvite, Inc.

June–Sept. 2019

San Mateo, CA

- Built integration testing framework for Jobvite's Candidate Scheduling interface with Selenium webdriver.
- Automated QA testing suite for web interface.

Software Engineering Intern

Baobab Studios

May–Sept. 2018

Redwood Shores, CA

- Performed QA testing on scenes for a Unity VR game.
- Automated audio/video conversion for mobile support.

Lab Assistant

Los Alamos Nat'l Laboratory

June–August 2017

Los Alamos, NM

- Synthesized a quantum dot display for the Bradbury Science Museum.
- Wrote feature identification code to analyze experimental image data.

Youth Conservation Corps

National Park Service

June–July 2016

Yellowstone National Park

- Performed hands-on trail maintenance and construction in national parklands.
- Gained experience in forest management, land stewardship, and safety protocols through fieldwork and training.

EDUCATION

University of Illinois at Urbana-Champaign

Ph.D. Candidate, Computer Science (Expected 2027)

2022–Present

Technion, Israel Institute of Technology

International Student Exchange Program

March–Aug. 2022

University of California, Santa Barbara

[College of Creative Studies](#)

B.S. with Highest Honors, Computing

2018–2022

TECHNICAL SKILLS

Programming: Python, C/C++, Java, Ruby, OCaml, JavaScript, HTML/CSS

Tools: Git, Docker, LaTeX, Unix Shell

Additional skills: Problem-solving skills, team collaboration, organization, physical labor

LEADERSHIP AND SERVICE

Mentor, Google Summer of Code

Free and Open Source Silicon Foundation

Summer 2022

- Supervised two college students in developing and leasing an open-source CLI-based waveform viewer.

Director, SB Hacks

UC Santa Barbara's inclusive, student-run hackathon

2020–2021

Santa Barbara, CA

- Led a team of fifteen organizers to plan and execute a large-scale virtual hackathon.
- Oversaw logistics including budget management, virtual venue coordination, catering planning, website development, and outreach.

Mentor, Womxn/Hacks

2019, 2020

Santa Barbara, CA

- Mentored students at all-female-identifying hackathon.