

# BENJAMIN DARNELL

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College sophomore with a background in programming and scientific research, interested in applying problem-solving skills to important real-world issues.

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## Education

University of California Santa Barbara, CA (GPA: 3.96) 2018–Present  
B.S. in Computer Science, College of Creative Studies Expected Graduation: 2022  
Kehillah Jewish High School (GPA: 4.35, ACT: 36) 2014–2018 (Graduated June 2018)  
California State Summer School for Mathematics and Science (COSMOS) Summer 2015  
Studied Astronomy and Climate Science under Professor Guhathakurta, UC Santa Cruz.

## Skills

### Relevant Academic Courses:

- Upper-Div CS Classes: Data Structures & Algorithms, Formal Lang. & Automata, Machine Learning, Parallel Prog., Grad-Level Computational Geometry, Android Development, Compilers, Operating Systems

**Software:** Proficient in Python, Java, C, C++, HTML/CSS, COBOL. Tools including Git, Bash, Perforce, MATLAB, Photoshop, Microsoft Office. Experience with Unix shell programming.

## Experience

### Summer Research Project June–Nov, 2020

- Advised by Dr. Ben Hardekopf, Department of Computer Science, UCSB.
- Recipient of the CCS Summer Undergraduate Fellowship. Given a stipend to fund an independent research project, and presented a poster at the CCS Research and Creative Activity Conference.
- Designed and created a command-line tool for automated problem generation that is used in upper-division CS classes at UCSB.

### Organizer, SB Hacks March–Dec, 2020

- In charge of creating the hackathon's digital venue, using Hopin, Discord, and Devpost.

### Engineering Intern at Jobvite, San Mateo, CA June–Sept, 2019

- Built a framework for Automation testing of Jobvite's Candidate Self-Scheduling web-interface in Java using the Selenium webdriver, and automated a suite of QA test cases.
- Worked toward reducing runtime of the Integration testing suite for enterprise software.

### Engineering Intern at Baobab Studios, Redwood Shores, CA May–Sept, 2018

- Debugged scenes in *Crow: the Legend*, an Emmy award-winning VR film.
- Wrote Python scripts to automate audio/video conversion with ffmpeg to support various mobile platforms, including Oculus Go, Samsung Gear.

### Nano-Chemistry Intern at Los Alamos Nat'l Laboratories, Los Alamos, NM Jun–Aug, 2017

- Worked at the Center for Integrated Nanotechnologies, synthesizing a quantum dot display for the Bradbury Science Museum and performed data analytics programming using Igor.

## Projects/Honors

### Projects:

Created online RPG tabletop simulator, for games of D&D run in a social distancing environment. (website: <http://cartesia.bdarnell.com>)

### Academic Honors:

- University of California Regents' Scholar (Top 1% of applicants)
  - National AP Scholar (Scores of 4 or higher on 8 AP tests) — 2018
  - National Merit Commended Scholar (CA) — 2018
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