

Aadi Bajpai
First Year Undergraduate
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EDUCATION

- **Vanderbilt University** Nashville, TN
Bachelors of Science, Computer Science; Cornelius Vanderbilt Scholar Aug 2020 - May 2024 (Exp.)
- **Delhi Public School Kalyanpur** Kanpur, India
CBSE; AISSE, CGPA: 10/10; AISSCE, Percentage: 93% May 2019
ACT: 36/36, Writing: 9/12, SAT Physics: 800/800; SAT Math 2: 800/800*

COMPUTER SCIENCE EXPERIENCE

- **Student Developer, Google Summer of Code 2020** Google
CCExtractor Development, Mentors: Willem Van Iseghem & Shivam Kumar Jha March 2020 - September 2020
 - Created a highly automated issue management and real-time logging notifications infrastructure on the SwagLyrics project “Make SwagLyrics Great Again”. Complete work product is at aadibajpai/gsoc.
 - Developed 75% more efficient build pipeline with a future proof large-scale stripper testsuite. Optimized backend algorithm with data from the logging infra for higher accuracy and robust edge case handling.
- **Research Mentor, Google Summer of Code 2019** Google
SwagLyrics, CCExtractor Development March 2019 - September 2019
 - Mentoring Chris Wang from Columbia University in the City of New York on the SwagLyrics project “Synchronizing Lyrics to Audio with Syllable Nuclei Detection”.
 - The project developed autosynch: a novel method of automatically synchronizing the lyrics of a song to its corresponding audio. Awarded grants by Google and the Python Software Foundation worth \$8,000.
- **The SwagLyrics Project** Open Source Organization
Founder & Developer February 2017 - Ongoing
 - Leading team of 6 developers and maintainers. Researched linguistic naming conventions on Spotify and Genius to analyze patterns and bridge both the services directly without API use.
 - Authored and open-sourced a suite of Python libraries, oversaw active development of Chrome/Firefox Extension, cross-platform GUI & Discord Bot with Arch Linux and NixOS releases as well.
 - SwagLyrics is 2.4x faster and more accurate than the most popular similar service¹ and can fetch lyrics for a track in as less as 0.28s². SwagLyrics currently has total 287,290 users in 338 servers with 1,961,493 backend requests.
- **Volunteer Developer & Designer** CCExtractor Development
Under Carlos Fernandez Sanz, Org Admin and Founder November 2017 - Ongoing
 - Mentored participants as part of Google Code-in 2018, Google Code-in 2019. Created various tasks and reviewed over 250 instances of tasks throughout the contest.
 - Worked on a continuous integration/continuous deployment regression test platform written in Python and Flask along with Design, Research and Documentation tasks for Google Code-in 2017.

AWARDS & HONORS

- **Grand Prize Winner, Google Code-in 2017** Google
CCExtractor Development November 2017 - January 2018
 - Among fifty winners from over 3500 contestants for two months of exceptional contribution to open-source software. Won all-expenses paid trip to Google Headquarters in California.
- **Finalist, Topcoder Humblefool Charity Hackathon** Topcoder
Évariste December 2017 - February 2018
 - Ranked 5th nationally for developing HumbleHelper using Node.js and Material Design hosted on IBM Bluemix which offered a bi-directional code editor and real-time teacher-student interaction.

¹https://colab.research.google.com/gist/aadibajpai/439cd358b001ae7d1ba970b68f70d92b/swaglyrics_test.ipynb

²https://colab.research.google.com/gist/aadibajpai/06a596ad753007b0faea132e96f372e0/swaglyrics_test.ipynb

ACHIEVEMENTS

- Awarded Paul Harrawood Honors full-tuition merit scholarship by Vanderbilt. *2020*
- Qualified for the Indian National Olympiad in Informatics 2019. *2018*
- One of two in the city to successfully clear Indian Zonal Computing Olympiad 2019. *2018*

CONFERENCES & TALKS

- PyCascades 2020: Automating Away The Open Source Maintenance Burden *Portland, OR*
- Google Summer of Code Mentor Summit 2019 *Munich, Germany*

PROGRAMMING SKILLS

- **Languages** : Python // C++ // JavaScript // Rust // HTML, CSS // A Programming Language
- **Software and Utilities** : L^AT_EX // Flask // Nginx // Git // Discord.py // PostgreSQL // Bash, Fish

RELEVANT COURSEWORK

- O* Program Design & Data Structures O** Programming & Problem Solving in Python
- O* Moore's Law Seminar

O: Ongoing, O**: Instructor's Approval*

POSITIONS OF RESPONSIBILITY

Deputy Digital Director The Vanderbilt Hustler *July 2020 - Present*

Creating coronavirus visualizations and maintaining the Hustler website.
Also created an experimental classic version at aadibajpai/hustler.

Executive Board VandyHacks VII *Aug 2020 - Present*

Developed the squirrel from VandyHacks Discord bot and made critical PRs
to VandyHacks open source projects for Fall hackathon with 600+ attendees.

RELEVANT LINKS

[GitHub](#), [LinkedIn](#), [Aadi's blog or something](#)