

Aadi Bajpai
Fourth Year Undergraduate

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EDUCATION

Vanderbilt University

Bachelors of Science, Computer Science Honors, Mathematics & Business; GPA 3.97/4

Honors: Full-tuition merit Cornelius Vanderbilt Scholarship, 6x Dean's List

Relevant Coursework: Grad. Computer Security, Grad. Algorithms, Automata Theory, AI, Compilers

Nashville, TN

Aug 2020 - May 2024

EXPERIENCE

Apple

SWE Intern

New York

May 2023 - Aug 2023

- Introduced improved invoice architecture based on Kafka queues from first principles, wrote scalable microservices and deleted legacy code.
- Continued work on anomaly detection from previous summer and aided in efforts to onboard more Commerce use cases.
- Led release day and signed off on Commerce applications being deployed to production.

Apple

SWE Intern

New York

May 2022 - Aug 2022

- Worked in Apple Media Products (AMP) Commerce Engineering. Added Anomaly Detection capabilities for Commerce data which is now deployed to Production. Precise details are confidential.
- Wrote microservices that handle 50M+ transactions daily and optimized queries to manage volume across 180+ countries.

Hack Lodge

Synthetic Initialization

New York

Aug 2022 - Aug 2022

- Handcrafted neural networks to devise a way to skip pre-training via synthetic initialization. Part of a highly selective cohort of engineers and startup founders.

Google

CCExtractor Development

Google Summer of Code, Google Code-in

Nov 2017 - Sep 2022

- 2022: Mentor for the Beacon app backend project that aims to extend my work from 2021.
- 2021: Developed GraphQL [backend](#) for the [Beacon](#) app with real-time websocket subscriptions for location sharing using Redis for PubSub deployed on AWS Lambda/EC2 with 0% idle resource usage.
- 2020: Created 75% more efficient build pipeline with 100% test coverage for [SwagLyrics](#). Optimized backend algorithm with data from logging infra for higher accuracy and robust edge case handling.
- 2019: Mentored the project "[Synchronizing Lyrics to Audio with Syllable Nuclei Detection](#)" to create [SwagLyrics/autosynch](#) with an average 71% lyrics-to-audio coverage.
- Google Code-in 2017: Grand Prize Winner for "exceptional contributions to open source".

LEADERSHIP POSITIONS

President Vanderbilt CTF Club

Founded competitive Capture The Flag team, [squirrel](#), which is ranked [top 20](#) nationally. Also run workshops to expose students to security concepts and provide a platform for members to learn and improve.

Director of Development, Dev / Content Committee VandyHacks VII, VIII, IX

Led team of 10 developers to create software for the largest hackathon in the South, with 600+ attendees from 70 schools. Developing VandyHacks software at [github/VandyHacks](#).

CONFERENCES & TALKS

[PyCascades 2020: Automating Away The Open Source Maintenance Burden](#)

Google Summer of Code Mentor Summit 2019

VandyHacks Workshops: [L^AT_EX](#), [Fullstack Development](#), Kubernetes

Portland, OR

Munich, Germany

Nashville, TN

PROGRAMMING SKILLS

Languages : Python / C++ / TypeScript, JavaScript / React, Redux, Next / Java / APL

Software and Utilities : GraphQL / Serverless / AWS / Flask / Nginx / Git / [L^AT_EX](#) / Bash, Fish

Databases : Cassandra / Hadoop / PostgreSQL / MongoDB / Redis