

James Yang

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EDUCATION

University of Virginia, Charlottesville, VA

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- Bachelor of Arts in Computer Science and Music

GPA: 3.38/4.0

RELEVANT SKILLS

- **Languages:** Java, Python, SQL, PHP, JavaScript, HTML, CSS, C++, Processing
- **Technologies:** Amazon Web Services (EC2, Elastic Beanstalk, RDS) Git, Google Cloud Platform (App Engine, SQL, FireStore), Github Pages, Jekyll

EXPERIENCE

CARMAX, RICHMOND, VA — *Software Development Intern*

- Prospective software development intern. Internship was cancelled due to COVID-19.
- Responsibilities would have included developing full stack applications for CarMax's retail solutions such as the 3D vehicle view feature at CarMax.com

UVA CS DEPARTMENT, CHARLOTTESVILLE, VA — *Teaching Assistant*

- Held office hours and facilitated lab sections to assist students with learning Java syntax and object-oriented programming concepts.
- Helped professors transition course material online using a variety of solutions such as Panopto, Slack, Twitch, and Discord.
- Graded exams and homework projects through online portal.

MONTICELLO HIGH SCHOOL, CHARLOTTESVILLE, VA — *Mathematics Tutor*

- Taught high-schoolers a wide range of mathematics fields ranging from Algebra to Calculus.
- Assisted teachers by tutoring individual students and creating personalized learning checkpoints and progress checks.
- Prepared students for Virginia standardized testing (tutored students had a 100% pass rate).

PERSONAL PROJECTS

ELLIPSIS — PHP, HTML, SQL, JavaScript, CSS

- Collaborative story-writing platform where a user can begin a story and others can add pieces to stories that interest them. Ellipsis includes a social component that allows users to interact and comment with stories.

STUDENT SPRINGBOARD – HTML, CSS, ANGULAR, PHP, SQL

- Generated a page where students can conveniently track their assignments and most-visited sites at one location

TEXT 2 SOUND – Python

- Python program that uses the MIDI-Util library to convert inputted text (CSV, command line input, TXT) into discrete musical notes.
- Text to Speech outputs a MIDI file that can be used in any commercial DAW to edit and transform music. The output is the literal musical translation of input text.

PRICESCRAPER – Python

- Python program that can be set to run at certain intervals and alert via email when a specified product drops below a user-specified target price.
- Gathers city data based on user input and shows average cost of living, median salary, housing costs and food prices