

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), Google Cloud Platform (App Engine, Firestore), SQL, Git, 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 200+ students with learning Java syntax and object-oriented programming concepts.
- Used Panopto, Slack, Twitch, and Discord to help professors transition course material online.
- Graded exams and homework projects through an online portal.

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

- Taught high-schoolers a wide range of mathematics fields ranging from Algebra to Calculus.
- Tutored individual students and created personalized learning checkpoints and progress checks.
- Improved Virginia standardized testing pass rate by 28%. (tutored students had a 100% pass rate).

PERSONAL PROJECTS

PRICESCRAPER – Python

- Python program that can be set to run at certain intervals and alert via email when a user-specified product drops below a user-specified target price. The app is currently scraping from BestBuy's online catalog.
- Users input a city and the program can return average cost of living, median salary, housing costs and food prices

ELLIPSIS — PHP, HTML, SQL, JavaScript, CSS

- A collaborative story-writing web app 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.
- Uses a relational database to store story pieces, user profile information, likes, comments, archived stories, and published stories.

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

- Built a launching page where students can conveniently track their assignments and most-visited sites at one location.
- After creating an account, the web app can quickly bookmark favorite sites, remind users of upcoming tasks, and display a calendar.

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. The program allows the user to sonify a body of text.
- Text to Speech outputs a MIDI file that can be used in any commercial digital audio workstation to edit and transform music. The output file can be composed into a song or directly exported as a WAV file.

CORONA PURITY TEST – HTML, CSS, JavaScript

- Web application that lets users answer a list of 50 questions about their quarantine activities.
- Javascript used to calculate user scores, display tiers, and clear inputs.
- Uses Twitter and Facebook API's to share the results of the test on the respective social media platforms.