James Yang

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EDUCATION

- **University of Virginia**   Charlottesville, VA
  Bachelor of Arts in Computer Science and Music; GPA: 3.38/4.0   *Aug. 2017 – May 2021*

EXPERIENCE

- **CarMax**   Richmond, VA
  Full Stack Software Developer   *July 2021 - Present*
  - **Checkout**: Checkout is a customer-facing product team responsible for bringing e-commerce capability to CarMax. Checkout integrates tools from across the entire business to deliver a fluid buy-online experience supporting our Omnichannel approach. Responsibilities include maintaining current APIs and databases, writing Jest, Acceptance and E2E tests for CI/CD pipelines, and releasing new features while improving reliability of existing code.
  - **CarMax Technology Academy**: The CarMax Technology Academy is an 8-week rotational and educational program designed to expose new developers to a broad spectrum of business specific technologies. The CTA program allows new graduates to develop strong fundamentals in large scale applications, API management, and object-oriented programming design.

- **UVA Dept. of Computer Science**   Charlottesville, VA
  Teaching Assistant   *Jan 2020 - May 2021*
  - **CS 2110 (Software Development Methods)**: Held weekly office hours and facilitated lab sessions to assist 200+ students each semester with learning Java syntax and general object-oriented programming concepts. Provided support to course staff with grading assignments and exams.
  - **CS 3240 (Advanced Software Development Techniques)**: Supervised 3 cohorts over the course of each semester. Hosted weekly office hours and taught students about modern engineering practices for multi-person projects, methods for maintaining large scale software systems, proper requirements specification, and working in an agile environment.

PROJECTS

- **Pricescraper**: 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 site. Users input a city and the program can return average cost of living, median salary, housing costs and food prices
- **Text 2 Sound**: 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**: 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.
- **Student Springboard**: Launch page leveraging Angular, PHP, SQL and more 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 user's custom calendar.
- **Ellipsis**: 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.

PROGRAMMING SKILLS

- **Languages**: : Python, Javascript, Typescript, C, Java, HTML/CSS, Powershell, C/C++
- **Technologies**: : Microsoft Azure, AWS(EC2, Elastic Beanstalk, RDS) React, REST, Git, Node, Docker, Django