Andy Wang

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Education

RICE UNIVERSITY   Houston, TX
BA in Computer Science and Statistics, May 2023
- **GPA: 3.79**
- **Relevant Courses**: Algorithmic Thinking, Computational Thinking, Intro to Program Design
- **Awards**: PennApps '20 3rd Overall, HackRice '19 1st Design Track, hackNEHS '17 Top 4, Metrohacks '16 1st Overall

Work Experience

ANB SYSTEMS INC   Houston, TX   June 2020 - August 2020
Software Engineering Intern
- Implemented microservice that receives **500K pings/day** using **Node/Express** with **gRPC**, deployed with **Docker** in AWS ECS Cluster with App Mesh, which **cut service response latency in half**
- Planned and developed hybrid mobile application using **Vue/React-Native** that sends camera captures through backend document recognition services; **used extensively during testing/QA pipeline**

INTERNATIONAL YOUTH NEUROSCIENCE ASSOCIATION   September 2019 - Present
Full Stack Web Developer
- Maintain nonprofit website garnering **500+ views/day** using the **Django** framework, **HTML**, and **Javascript**
- Led design and end-to-end development of materials page that provides free neuroscience courses for HS students

KTBYTE COMPUTER SCIENCE ACADEMY   Lexington, MA   July 2019 - March 2020
Course Instructor
- Taught **four to six Java classes** with **three to six students** per week for US and Chinese students ages six to sixteen

Volunteering

WAYLAND HIGH SCHOOL CODECADEMY   Wayland, MA   September 2017 - May 2019
Founding Member, Lead Instructor
- Organized weeklong introductory and intermediate **Java** courses with **class sizes of 30 and 10**, respectively, for local middle school students

Projects

DUNCAN WEBSITE   December 2019 - Present
Web Director | https://duncan.rice.edu
- Overhaul existing Wordpress website with front-end built with the **Angular** framework, **HTML**, and **CSS**
- Develop and maintain backend API server using **Node/Express**, **MongoDB** used for website and future applications

LUDWIG   September 2020
Lead Developer | https://github.com/awangg/Ludwig
- Planned and developed musical platform using **Vue**, **Node/Express**, **MongoDB** that synchronizes multiple audio recordings by dynamically finding the first musical pitch in each, then trimming and merging the recordings together
- **3rd place overall** project **out of 170 total projects** at the PennApps XXI hackathon

Technical Skills

- **Understanding of:** HTTP, REST, OOP principles, Data Structures, Algorithms
- **Proficient languages:** Javascript/jQuery, HTML/CSS, Java
- **Intermediate languages:** Typescript, Python
- **Framework experience:** Django, Flask, Angular, Vue.js, Vue-Native, React, Node/Express, Actix, Expo
- **Tooling:** Git/Github/Gitlab, Powershell, MongoDB, MySQL