AARON WONG

Portfolio • LinkedIn • Github
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EXPERIENCE

Jopwell, New York, NY — Jan 2016 - Present
Software Engineer

- Lead the re-design and development of the architecture for the client sided application following JAMstack best practices.
  - Decrease the build time of the frontend application by more than 66%.
  - Reduce the costs of hosting the client side application by over 50% annually.
- Optimize the performance of the frontend application using progressive web application techniques and other best practices.
  - Shorten the time to first interactive by approximately 50% from 6.5 seconds to 2.3 seconds.
- Assemble and integrate comtemporary tools such as TravisCI, Hound, and continuous deployment to modernize the deployment pipeline of the frontend application.
- Participate in code reviews of colleagues to help catch bugs early and to affirm that code that is being deployed is completely tested and up to engineering standards.
- Construct and expose required endpoints on the API layer using Django Rest Framework.
- Build testing infrastructure and oversee its expansion to over 1000 unit tests and 500 integration tests, covering more than 80% of the frontend application.
- Assist in fleshing out the hiring procedure for Jopwell's engineering team by building out initial take home project and contributing interview questions.
- Mentor and manage one junior developer.
- Work directly with the product team from ideation to implementation of technology products to deliver seamless user experiences through elegant user interfaces.

The Ohio State University Mathematics Department — Mar 2014 – May 2015
Undergraduate Research Assistant - Computational Number Theory

- Employed GNU Bignum libraries in C++ to design a program that would efficiently calculate the Euler-Riemann zeta function with arbitrary precision.
  - Executed on average 18 times faster than existing computer algebra systems.
- Implemented mathematical techniques to control approximations so that total calculation errors are kept within a user-specified range.
- Tested and debugged code to ensure required precision of calculations was achieved with minimal execution time.
- Extended program capabilities to include calculations of the nontrivial zeros of the zeta function within a user-defined interval on the critical line.

RELEVANT SKILLS

▪ JavaScript	▪ React	▪ Redux	▪ PostgreSQL	▪ Git
▪ HTML/CSS	▪ Python	▪ Django	▪ AngularJS	▪ Webpack

EDUCATION

New York University, New York, NY — Sept 2017-Dec 2019
Masters of Science in Computer Science

The Ohio State University, Columbus, OH — Jan 2012-May 2015
Bachelor of Science in Mathematics – Cum Laude