

Andrew Wang

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Education

B.S. in Computer Science, University of Virginia

Graduated May 2022

Thomas Jefferson High School for Science and Technology

Graduated May 2018

Work Experience

Software Engineer, Precise.ly

February 2022 – Present

Collaborated with a team of 4 to design mock-ups and develop prototypes shown to investors and prospective partners, securing over \$200,000 in funding.

- Designed role-based authorization architecture in Clojure to manage permissions and secure patient data
- Created workflow to iterate on medical screening care pathways, reducing revision time by 3+ hours per week
- Built and validated user experience functions for dynamic forms and personalized care modules

Software Engineer Intern, Aurora

May 2021 – August 2021

Developed a web application in React to visualize, analyze, and test routes for autonomous vehicles, assisting vehicle operators and increasing debugging efficiency by over 90%.

- Proposed and documented 5 different architectures for review by stakeholders from 2 different teams
- Added gRPC service and command line tools to convert map and routing data into GeoJson and GPX

Software Engineer Intern, Capital One

June 2020 – August 2020

Created a web application with React that guides managers through project approval requirements with real-time updates, streamlining the project proposal process and enabling live collaboration through DynamoDB.

- Built a flowchart rendering library that dynamically updates from a remote configuration file
- Deployed a serverless web application on AWS using a continuous integration pipeline

Software Contractor, MultiState

February 2020 – May 2020

Built web crawlers using Scrapy and Selenium for government data collection and analysis in 3 states.

- Refactored existing codebase to support Selenium, speeding up existing crawlers by 50%
- Added custom middleware to clean and process incoming data, reducing invalid data errors by 90%

Software Engineer Intern, Lancium

September 2019 – May 2020

With a team of 3, designed a consumer-facing REST API, Python client library, and command-line interface to manage cloud computing resources, containers, and data.

- Implemented the Python client library and built testing and mocking tools to validate its performance
- Analyzed power consumption datasets with over 400,000 data points to draw insights shown to investors

Web Developer, BAM Technologies

July 2018 – July 2019

Identified and resolved locking bottlenecks in SQL queries to increase application speeds by up to 50%. Released technical orders feature with search and mapping functionality.

- Led sprint reviews and clearly communicated project goals and milestones with clients
- Implemented unit tests and integration tests with Selenium to prevent broken releases

Skills

Software: JavaScript/TypeScript, Python, C/C++, Dart, Clojure, SQL, C#, Java, React, React Native, Flutter, Flask, Django

Tools: Git, Docker, Jenkins, AWS, Google Cloud, PostgreSQL, MySQL, DynamoDB, Selenium, Tensorflow, PyTorch, Figma