NICHOLAS YANG

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EDUCATION

2012-2016	Stuyvesant High School
2017-2021	New York University (GPA 3.9)

LANGUAGES/TECHNOLOGIES/TOOLS

Proficient: Bison, C, Ruby, Ruby on Rails, Python, Bash, PostgreSQL, JavaScript (ES6), React, GraphQL
Familiar: Rust, Java, C++, Clojure, Scheme, Haskell, OCaml

WORK EXPERIENCE

5/18- *Software Developer* **Google Summer of Code**

Added type annotations to the Ruby language. Used Bison and C to modify existing LALR parser while writing documentation on the Ruby codebase.

3/17-6/17 *Intern* **YouVisit LLC**

Software development for YouVisit's virtual reality product Experience Viewer. Emphasis on modern web development tools such as React, Redux, RxJS, ImmutableJS, etc. Helped refactor and redesign parts of codebase. Used Agile methodology with JIRA.

7/16-10/16 *Intern,* **Maritime Capital LLC**

Software development using Ruby, PostgreSQL, and C++. Heavy emphasis on extensible and maintainable code using design patterns.

9/15-5/16 *Teaching Assistant,* **Computer Science and Technology for Urban Youth**.

Taught Python to middle school and high school students. Planned and implemented lesson plans involving essential programming concepts such as loops, variables and recursion.

SOFTWARE PROJECTS

1/18 Haskell Lox (`git.io/vN9zI`)

A recursive descent parser for the Lox Language, written in Haskell. Adapted from an interpreter in Java from the book Crafting Interpreters.

11/17 Microtea.ch (`git.io/vN9zn`

Uses microservices to teach kids to program. Built using Ruby on Rails with a React/Apollo front end and stdlib microservices. *Won the stdlib sponsor prize at Hack Princeton*

7/17-12/17 Stuyvesant Spectator Website (`git.io/vFWCw`)

Website for high school newspaper consisting of two front end applications, the main site and a content management system, written in React, and a GraphQL API written in Ruby on Rails. Deployed using CircleCI and AWS at `stuyspec.com`

3/17 Air Alexa (`git.io/vSmL1`)

Virtual reality air traffic control simulator using Amazon Alexa. Utilized custom VR models. Built with Ruby on Rails, SQLite, A-Frame, React, Node.js and AWS Lambda. *Won C2's Best Hack for Air Traffic Control at MHacks*

2/17 Fashion Tree (`git.io/vDj7O`)

Scrapes clothing data from various websites, then analyzes their water and energy consumption and displays an ecological index per clothing item. Written in Ruby on Rails with PostgreSQL. *Won Sustainability and Social Impact prize at HackNYU.*