

# NICHOLAS YANG

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e-mail: [nick@nicholasyang.com](mailto:nick@nicholasyang.com)

## EDUCATION

2012-2016 Stuyvesant High School  
2017-2021 New York University (GPA 3.8)

## LANGUAGES/TECHNOLOGIES/TOOLS

**Proficient:** C, Ruby, Rails, TypeScript, Rust, PostgreSQL, JavaScript (ES7), React, GraphQL

**Familiar:** Java, C++, Clojure, Scheme, Haskell, OCaml, Racket

## WORK EXPERIENCE

- 9/20- Software Engineering Intern, **Cloudflare**  
Working on compiler for domain-specific language to WebAssembly, written in Rust.
- 6/19-8/19 Software Engineering Intern, **Microsoft**  
Core Billing and Tax Group. Implemented big data analytics using Microsoft's internal MapReduce tool, Cosmos. Wrote data pipelines to process and aggregate petabytes of data. Also contributed to dashboard implemented in React and TypeScript
- 5/18-8/18 Software Developer, **Google Summer of Code**  
Project to add type annotations to the Ruby language. Used Bison and C to modify existing LALR parser in MRI 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.
- 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.

## SOFTWARE PROJECTS

- 11/19-5/20 Sesh  
A productivity app that uses screen recording and task oriented goals to increase accountability. Finalist at the Y Combinator hackathon, won an Office Hours with Y Combinator partner.
- 9/18-7/19 HackNYU  
Lead team of 8 developers. Designed, implemented and deployed a single page application written in React, TypeScript and Firebase which handled applications, check-in and day-of information. Received over 2000 applications, doubling the previous year's record.
- 8/18- Saber ([git.io/fjdR6](https://git.io/fjdR6))  
A compiler for my own ML-inspired language that targets WebAssembly. Written in Rust.
- 7/17-12/17 Stuyvesant Spectator Website ([git.io/vFWCw](https://git.io/vFWCw))  
Website for high school newspaper written in React, Ruby on Rails and GraphQL. Deployed at [stuyspec.com](https://stuyspec.com)