

NICK YOUNG

EMAIL: NICHOLAS_YOUNG@BROWN.EDU | WEBSITE: N-YOUNG.ME | GITHUB: GITHUB.COM/N-YOUNG | LINKEDIN: LINKEDIN.COM/IN/NDASHYOUNG

> EDUCATION

- **Brown University – ScB. in Mathematics and Computer Science** [GPA: 4.00]
 - > Relevant coursework: Accelerated Intro to CS, Software Engineering, Computer Systems, Deep Learning, Database Management Systems, Discrete Structures and Probability, Linear Algebra, Statistical Inference.

> EXPERIENCE

- **Undergraduate Teaching Assistant – Accelerated Intro to CS** [CSCI 0190] September – December 2020
 - > Iterated upon course content, graded assignments, conducted TA hours, and ran weekly lab sessions. Taught in **Pyret**.
 - > Worked with the Ethics TA program to develop new CS ethics content for both this course and the department at large.
- **Software Engineering Intern – Stochastic AI** [stochastic.ai] June – September 2020
 - > Designed and built a webapp to deliver hardware-accelerated LDA for scRNA sequencing in **React** and **Python**.
 - > Managed the web team and set up **CI/CD** for the website, webapp, and backend with **Github Actions**, **GCP**, and **Netlify**.
 - > Engineered the backend microservices architecture from scratch using **GraphQL**, **Docker**, **Rust**, **Python**, and **Javascript**.
 - > Initiated the company's documentation effort, setting up internal and external documentation sites using **Hugo**.
- **Full Stack Engineering Intern – Stylindex** [stylindex.com] June – September 2020
 - > Developed an automated **GraphQL** emailing microservice using **Rust**, deprecating an old, manual email scheduler.
 - > Revamped the internal analytics system by building new charts in **React** and tracking API activity with **Rust** and **Python**.
 - > Refactored old **React** components and modules to support **Typescript**, conducted routine bugfixes and patches.
- **Lead Developer & Projects Director – Full Stack at Brown** [fullstackatbrown.com] February 2020 – Current
 - > Created the Brown Essentials app to present real-time university data, including dining, laundry, and map information.
 - > Developed in **React Native**, **Node.js**, and **Express**. Deployed a **GraphQL** API with a **MongoDB** database on **GCP**.
 - > Managed all project teams and led workshop development for Hack@Home, the club's virtual hackathon.
- **Web Developer – Brown Political Review** [brownpoliticalreview.org] September 2019 – Current
 - > Maintained the Brown Political Review website on the **LAMP stack** and **Wordpress** in a team of four.
 - > Implemented mobile support, article comments, author profile pages, and optimized Schema.org microdata.

> PROJECTS

- **Droppy** [github.com/n-young/droppy] July 2020
 - > Developed a secure Pastebin-style file sharing service in **React** and **Rust**, deployed on **GCP**, **AWS**, and **Netlify**.
 - > Features include file upload and download up to 1Gb, unique link generation, password protection, and expiring links.
- **ParselTongue** [parseltongue-cs32.herokuapp.com/] April 2020
 - > Built a PageRank-powered academic paper skimmer for researchers as part of a SWE course in a team of four.
 - > Implemented user authentication, snippet visualization, and data persistence in **Java**, **Apache Spark**, and **MongoDB**.
- **LinguaML** [github.com/n-young/linguaml/] January 2020
 - > Awarded: **Hack@Brown Facebook Prize** - Best Hack that Builds Community
 - > Crafted a language learning mobile app using **React Native**, **Google Vision API**, and **Microsoft Translator API**.
 - > Features include computer-vision-powered flashcard generation, QR code card sharing, and text-to-speech.

> SKILLS

- **Programming Languages** – Rust, Javascript, Java, Python, Go, Pyret, Racket, MATLAB, Octave, HTML, CSS.
- **Technologies** – Git, Docker, GCP, AWS, React, React Native, GraphQL, MongoDB, Hugo, SQL, Node.js, Express, Rocket.
- **Design** – LaTeX, Photoshop, InDesign, Illustrator, Lightroom, Premiere, After Effects, SolidWorks.
- **Interests** – Photography [portrait, travel, event], Videography, Blogging, Public Speaking, Japanese, Badminton.