

KYLE REYES

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EDUCATION

Brown University, 4.00/4.00 GPA

Providence, RI | Expected May 2023

- *Sc.B. Mathematics-Computer Science*
- **Courses:** [Applied ODEs](#), [Complex Analysis](#), [Deep Learning](#), [Real Analysis I-II](#), [Honors Linear Algebra](#), [Honors Multivariable Calculus](#), [Honors Statistical Inference I](#), [Theory of Probability I](#)
- **Activities:** 2-year co-captain of men's fencing team, former TA for 2 computer science courses

PROGRAMMING EXPERIENCE

Twitter, *Engineering Intern*

New York, NY | Jun – Aug 2022

- Refined search results to always suggest the account whose username matches the exact search query
- Improved customer experience by implementing tickets and various requests using Scala, Java, and React

Amazon, *Software Development Engineer Intern*

Seattle, WA | May – Aug 2021

- Migrated a batch job used for the Amazon Prime Rewards Visa Card to an AWS infrastructure (CDK, CloudFormation, CloudWatch, Fargate, S3, VPC, SecretsManager)
- Lowered cost, enhanced security, resolved potential conflicts with other batch jobs using Java and TypeScript

Soham Sankaran, *Software Engineer Intern*

Jun - Aug 2020

- Co-built [Moodplex](#), a web app that produces social media post rankings based on user comparisons
- Acquired trending posts from Twitter, Reddit, YouTube, Imgur, and Hacker News APIs using Go that was then stored in a PostgreSQL database
- Managed frontend using HTML, CSS, and JavaScript

SKILLS

Languages: Java, C, C++, Python, Go, OCaml, Racket, Scala, HTML, CSS, JavaScript, TypeScript, SQL, Bash, LaTeX, x86

Technologies: AWS, Docker, GDB, Git, NumPy, TensorFlow, Wireshark | **Foreign Language:** Filipino (Fluent)

COMPUTER SCIENCE PROJECTS

IP ([Spec](#)) + TCP ([Spec](#))

Feb - May 2022

- Designed an abstract link layer using UDP and implemented the IPv4 protocol in a group of two using Go
- Supported routing through a modified version of RIPv2 with split horizon, poison reverse, and triggered updates
- Built a TCP implementation with a state machine, sliding window protocol, and zero window probing

Dropbox ([Spec](#))

Mar - Apr 2021

- Designed a stateless client for a secure file sharing and storage system in a group of two using Python
- Utilized provided symmetric & asymmetric encryption schemes, digital signatures, hash functions, HMACs, and random byte generators to meet security requirements

ParselTongue ([GitHub](#), [Demo](#))

Apr - May 2020

- Built a smart PageRank-based research paper parsing tool for Software Engineering final group project
- Implemented intelligent PDF text parsing using Java (other technologies used: Freemarker, Spark, MongoDB)