

# Nicholas Paul Chaloult

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## Education

- August 2017 – **Georgia Institute of Technology, Atlanta, GA.**  
May 2021 (Expected)
- Candidate for Bachelor of Science in Computer Science
  - Threads: Intelligence, Info & Internetworks
  - GPA: 3.90/4.00
    - Major-specific GPA: 4.00/4.00

## Experience

- May 2019 – **Software Engineering Intern, DataScan, Alpharetta, GA.**  
Present
- Established pattern for new REST API endpoints that perform lightweight existence/authorization checks for subresources
  - Helped move descriptions that clients customize from Oracle to an in-memory cache as a primary means of access
  - Discovered and addressed multiple situations where, when searching by search criteria, particular criteria could not be omitted
- January 2018 – **Rise Up Undergraduate Assistant, College of Computing, Georgia Institute of Technology, Atlanta, GA.**  
Present
- Lead weekly webinars and monthly in-person sessions, explaining and demonstrating fundamental computer science concepts to Georgia high school students
  - Organized and ran the 2018 and 2019 AP Bowl, during which over 300 Georgia high school students took a mock AP Computer Science exam

## Personal Projects

- Ongoing **Kindling, Web Service.**  
*A home for "first Tinder message" ideas that disappear after twelve hours*
- REST API written in Go communicates with Postgres database to perform basic CRUD operations for message suggestions
  - "Cron job" runs periodically, purging all message suggestions older than twelve hours from the database
  - Message suggestions may be upvoted, downvoted, and flagged as inappropriate
- Friendly Competition, Web Application.**  
*Compares a League of Legends player's recent in-game performance with that of their friends.*
- Manages multiple, asynchronous calls to the Riot Games REST API, then aggregates and computes comparative statistics
  - Express back-end exposes one endpoint for React front-end to consume
- Ongoing **Medicine Cabinet, iOS Application.**  
*Keeps track of what medications the user is taking, and informs them when they may have another dose of any particular medication.*
- Uses Core Data to persistently store medicine descriptions and dosage information
  - Sets background timers with Grand Central Dispatch, and notifies user when a timer expires with a local notification

## Skills and Attributes

- Languages Java, Python, JavaScript, Go, C, Swift, HTML, CSS
- Frameworks and Libraries React, Spring, Express
- Tools and Technologies Git, Docker, Markdown,  $\LaTeX$ , Postgres
- Relevant Coursework Data Structures and Algorithms, Analysis of Algorithms, Intro to Artificial Intelligence, Game AI, Intro to Information Security, Object-Oriented Design, Object-Oriented Programming, Operating Systems and Networks, Computer Organization, Intro to Database Systems