

# Philip Clement

[pclem803.github.io](https://pclem803.github.io) | [philipclement2022@u.northwestern.edu](mailto:philipclement2022@u.northwestern.edu) | 210-355-4533

## EDUCATION

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**Northwestern University**, Evanston, IL  
B.S. in Computer Science | 3.76/4.00 GPA

*Expected Graduation June 2022*

**Awards and Recognition:** Vanderblue Scholarship (Leadership), Robert Rheem Scholarship (Theatrical and Academic Accomplishment), multiple High Honors and Dean's List award recipient (Academic Excellence)

## INDUSTRY EXPERIENCE

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***Auth and Security Software Engineering Intern - Relativity*** June - September '20

- Worked on the Agile development of a Security-Tier 0 application responsible for authentication of over 180,000 users
- Pioneered research and prototyping of a custom Relativity implementation of cutting-edge FIDO2 technology in IdentityServer4
- Engineered un-phishable, passwordless authentication ceremony consistent with OAuth2, OpenID Connect, and FIDO protocols
- Enhanced Relativity's Two-Factor-Authentication from basic Email/SMS to support modern TFA authenticator apps
- Orchestrated configuration and deployment of Unit-Tests to support renovated TFA Aurelia.js workflows using Karma and Jasmine with a code coverage above 90%
- Designated team subject matter expert on issues pertaining to JavaScript

## ENGINEERING PROJECTS

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***One House - Collaborative Project*** January - March '20

- Collaborated with four students in Agile Sprints to develop a shared shopping list web and mobile application in React.js
- Devised workflow for integrated user payment utilizing receipt scanning and user notification leveraging Twilio SendGrid API
- Built an adaptive frontend interface, including controlled forms, utilizing React, React Native, and RBX component library
- Handled sensitive user profile and shopping list data using OAuth2 protocol for login and Firebase JSON-databasing for storage

***Carousel - Collaborative Project*** August - Present '20

- Controlled agile development of a React Native messaging app by organizing and leading team's weekly SCRUM meetings
- Designed chat app architecture using MongoDB databasing, Redux, Socket.IO and Express servers, and Node.js backend

***Bubble Calendar - Personal Project*** October - December '19

- Created calendar application with custom MongoDB Schemas and automated email reminders using the Twilio SendGrid API
- Built RESTful APIs to handle client JSON requests using a Node.js Express server hosted with Heroku cloud compute
- Secured client-server communication with JSON authentication tokens stored through browser cookies
- Stored salted passwords, user profiles, and data on a NoSQL MongoDB Atlas cluster

## LEADERSHIP EXPERIENCE

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***President - Sigma Nu Fraternity*** January '20 - August '20

- Organized and facilitated difficult fraternity-wide conversations in response to proceedings of COVID-19, the Black Lives Matter movement, and Northwestern's Abolish Greek Life movement
- Planned a three-pillar plan to reform Northwestern Fraternities, focusing on intentionally anti-racist recruitment, removal of financial barriers, and dismantling of toxic/predatory practices
- Successfully lobbied Interfraternity Council to adopt plan as a model for reform for Northwestern fraternities

***Founder of Student Investment Group (SIG) - Saint Mary's Hall*** June '17 - September '18

- Founded and managed Student Investment Group of over 100 students
- Oversaw investing a \$20,000 real-money portfolio yielding a positive alpha of 8%

## SKILLS AND LANGUAGES

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- **Front-end:** JavaScript, React.js, Redux, Aurelia.js, HTML/CSS
- **Back-end:** Node.js, SQL, MongoDB, C#, Python, RESTful APIs
- **Other:** Git, Jasmine and Karma Unit Testing, Agile Development, Public Speaking

## EXTRACURRICULARS

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Investing; Theatre and Improv; Greek Life; Spikeball; Challengers League Baseball; Loyal San Antonio Spurs Fan