

Philip Clement

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EDUCATION

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

Expected Graduation June 2022

Skills & Languages

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

INDUSTRY EXPERIENCE

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

- Worked on the Agile development of two Security-Tier 0 applications responsible for the authentication of over 180,000 users
- Pioneered research and prototyping of a Relativity implementation of cutting-edge FIDO2 technology in IdentityServer4
- Engineered an un-phishable, passwordless authentication ceremony consistent with OAuth2, OpenID Connect, and FIDO Alliance protocols
- Enhanced Relativity's Two-Factor-Authentication from basic Email/SMS to support modern TFA authenticator apps across six weeks of sprint work
- Orchestrated configuration and deployment of Unit-Tests to support renovated TFA Aurelia.js workflows using Karma and Jasmine
- Designated team SME (Subject Matter Expert) on issues pertaining to JavaScript

ENGINEERING PROJECTS

OneHouse - Collaborative Project November - December '19

- 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 using Twilio SendGrid API
- Built an adaptive frontend interface, including controlled forms, using 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 Startup August - Present '20

- Controlled the agile development of React Native mobile app that centralizes all of a student organization's messaging and management needs utilizing forms, events, deadlines, and polls
- Designed chat app architecture and developed mobile app using MongoDB databasing, Socket.IO and Express servers, and Node.js backend

Bubble Calendar - Personal Project October - December '19

- Created a fully-featured calendar application with custom event types, multiple view panes, 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 user profiles, salted passwords, and data on a NoSQL MongoDB Atlas cluster

LEADERSHIP EXPERIENCE

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

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

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

- Founded and managed High School Student Investment Group (2016-2018) - Oversaw 100+ students in investing a \$20,000 real-money portfolio yielding a positive alpha of 8%