

Philip Clement

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EDUCATION

Northwestern University, Evanston, IL
B.S. in Computer Science | 3.80/4.00 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)

SKILLS AND LANGUAGES

- **Front-end:** JavaScript, React.js, React Native, Redux, Aurelia.js, HTML/CSS
- **Back-end:** Node.js, SQL, PostgreSQL, MongoDB, C#, Python, RESTful APIs, AWS
- **Areas of expertise:** Cybersecurity, System Design, Databasing, Agile Dev., Product Management, Public Speaking

INDUSTRY EXPERIENCE

Carousel LLC - Cofounder and Distributed Systems Engineer (Back-End) September '20 - May '21

- Co-Founded a [SAAS company](#) with the mission of centralizing and democratizing university programming to engage students and modernize administrative workflows
- Instituted a Serverless suite of APIs and microservices responsible for handling user and message data (AWS DynamoDB and PostgreSQL), Image and File store (AWS S3), and user authentication (AWS Gateway)
- Implemented robust React Redux state architecture to reduce application refreshes by over 90%
- Interviewed more than 50 stakeholders from 15+ universities to direct the development of product prototypes

Relativity - Auth and Security Software Engineering Intern 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 bleeding-edge cybersecurity technology FIDO2 to enable high-security authentication
- Engineered un-phishable and passwordless form of authentication consistent with OAuth2, OpenID Connect, and FIDO protocols
- Facilitated the transition of eight full-time .NET developers in learning JavaScript as the team's JavaScript Subject Matter Expert
- Introduced Unit-Testing framework (Jasmine and Karma) for renovated TFA Aurelia.js pages with a code coverage above 90%

Patient Rights Advocate & Firelight Health - Freelance Software Engineer June '21 - Present

- Designed and co-authored [congressionally cited research](#) on hospital compliance with 2021 Price Transparency legislation
- Standardized 500 unstructured JSON, CSV, TXT and XML into an accessible format using file-level Cosine Similarity algorithms, NumPy, and Google Drive API
- Used technical expertise to evaluate hospital compliance and communicated findings to PRA executives to inform Price Transparency policy decisions

ENGINEERING PROJECTS

One House - Collaborative Project January - March '20

- Collaborated with four students in Agile Sprints to develop a shared shopping list web and mobile app using React and React Native
- Ideated and implemented process for integrated user-to-user payment utilizing receipt scanning and email notifications

Music For the Moment- Collaborative Project January - March '21

- Lead and engaged a team of 6 developers through weekly SCRUM meetings as team's designated Product Manager
- Leveraged Python multithreading, IBM Watson API, and Natural Language Processing to accept incoming speech, conduct sentiment analysis and play mood-matching music in concurrency

LEADERSHIP EXPERIENCE

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

- Organized and facilitated difficult conversations with both brothers and alumni 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

EXTRACURRICULARS

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