Brooks Tawil

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Education

Rutgers University-New Brunswick   **Graduating in** May 2019

B.S. in Electrical and Computer Engineering

B.S. in Computer Science

GPA: 3.72/4.00

Awards: Rutgers Engineering Honors Academy, Consistent Dean's List Placement, James Dickson Carr Scholarship

Relevant Coursework: Data Structures, Computer Architecture, Discrete Structures, Probability I/II, Circuits I/II, Databases, Systems Programming, Algorithms, Software Engineering, Digital Electronics, Computer Security, Internet Technology, Intro to Artificial Intelligence, Intro to Machine Learning, Network Security

Skills

Languages(Adv): Python, Typescript, Javascript, HTML, Java, C/C++

Tools(Adv): Express, Node, Angular, Bootstrap, MEAN stack

Infrastructure: Google Cloud, AWS, Raspberry Pi, Arduino

Languages(Int): MATLAB, LaTeX, Go, MIPS, C#, Rust, SQL

Tools(Int):, MongoDB, Django, React, jQuery, Firebase

Developer Tools: Github, VS Code, Android Studio, Jira, Bitbucket

Experience

Citi Institutional Clients Group - **Summer Technology Analyst** - **New York, NY**   June 2018 - August 2018
— Serve as a Full Stack MEAN developer within Investor Services Technology division on a team of business analysts and developers
— Lead and complete a project related to migrating our front end from AngularJS to Angular 5 and present results to senior management
— Integrated within a team running in an agile development environment consisting of sprints, multiple environments, unit testing etc.
— Used Typescript and Angular as main tools to develop features that were run =in QA, UAT and finally production environments

Kedma Solar - **Junior Developer** - **Tel Aviv, IL**   May 2017 - August 2017
— Wireframed, implemented and deployed new features using Java and Android Studio for users and technicians in the field
— Submitted and participated in code reviews commits for code during production that reached live users
— Debugged and revised PCB designs for a company power meter using Eagle PCB designer for schematic design

Keyboard Learnability under *Professor Janne Lindqvist* - **Research Assistant** - **New Brunswick, NJ**   January 2017 - May 2017
— Produced an android keyboard application natively using Java to monitor keyboard usage in live field tests with real users
— Compiled notes and research into a technical paper using LaTeX following IEEE paper specifications for this project, as well as for the Windows Hello project, each totaling approximately 5000 words

Windows Hello under *Professor Janne Lindqvist* - **Research Assistant** - **New Brunswick, NJ**   January 2016 - January 2017
— Ran usability studies and tests on the Windows Hello biosecurity protocol using iris, fingerprint and facial recognition
— Attempted to use common biosecurity exploits such as fingerprint recreation, facial spoofing and iris spoofing

Tabush Group - **Research and Development Intern** - **New York, NY**   May 2015 - August 2015
— Researched software components related to hosting virtualized instances of a client's desktop in an offsite environment
— Explored the cost and benefits of various infrastructure and tech stack choices for potential data centers and cloud services

Extracurricular

Hack RU - On-campus Hackathons   October 2017 - Present
— Actively participated in hackathons held on the Rutgers campus by Undergraduate Student Alliance of Computer Scientists (USACS)
— Top 3 finish in the last two competitions with entries involving basic AI and frontend UX and UI demonstrations

Rutgers IEEE - Local IEEE Chapter   October 2017 - Present
— Competed in the Rutgers IEEE Micromouse competition alongside two ECE students to construct a small maze solving robot
— Served as team captain and lead the team to a strong 2nd place finish in the final competition held at the Rutgers Chapter of IEEE

Affiliations

Theta Tau - **Co-ed Professional Engineering Fraternity** - President   June 2018 - Present
— Lead and represent the premier professional engineering fraternity at Rutgers at events, conventions, and to other organizations
— Head an executive board and run meetings across all committees across the fraternity, ensuring each team sets and reaches their goals
— Apply common project and team management strategies and technologies to rework our system of execution and communication

Tau Beta Pi - **Engineering Honors Society** - Vice President   December 2017 - Present
— Served as main point of contact between E-board and members for event coordination as well as news regarding the organization
— Head planning for the upcoming spring initiation and work alongside the rest of the E-board to get resources and manpower for events

Rutgers Hillel- Volunteer   December 2016 - Present
— Assisted with recruitment and successfully brought in more members to participate in cultural events on campus