

Natalie Wilkinson

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EDUCATION

Georgia Institute of Technology

Aug. 2016 - Dec. 2019

GPA: 3.70

Candidate for Bachelor of Science in Chemistry

Honors Program • Dean's List • Faculty Honors • Georgia Tech Chemistry Outstanding Student Scholarship

SKILLS

LANGUAGES: Python, Java, MySQL, Postgres, HTML/CSS

TOOLS: Google Cloud, Amazon Web Services, APIs, Heroku, Serverless, Twilio

PROJECTS

My Angel Sight

Feb. 2019

Technology that helps drivers become aware of their distracted driving and incentives attentive driving. The program tracks a drivers movements and determine if they are a distracted or not. Face tracking was done using the OpenCV library and a convolutional neural network to detect when drivers are looking at the road versus distracted. This was also made using Google Cloud Functions, Google MySQL Database, and integrates with a banking API (TSYS API) to keep track of user rewards. Worked on a team of four engineers. **Awarded 1st place in the Experienced Hack Category at HackAuburn and winner of TSYS sponsor prize.** Website: myangelsight.com

Rain Alert

Jan. 2019

Work In Progress: Application that notifies users by text when there is inclement weather. Built with python, Twilio, OpenWeatherMap API, Heroku PostgreSQL and hosted on Heroku. Website: <https://rain-alert-frontend.herokuapp.com>

Interactive Paint

Apr. 2019

Built interactive user interface using JavaFX. The application includes features that allow users to create customized drawings and change colors.

Social Media Presence

Nov. 2018

Developed a python application that used a cosmetics company API to analyze the how the number and type of social media posts affects the company's social media presence.

EMPLOYMENT

United Postal Service

Software Engineering Intern, Alpharetta, GA

May 2019 - Present

- Working in UPS supply chain division building an interactive internal ticket management software that manages development of features.

Amgen Scholars Program, UC Berkeley College of Chemistry

Research Assistant under in John Hartwig's Lab, Berkeley, CA

May 2018 - Aug. 2018

- Investigated an enantioselective iridium-catalyzed allylic substitution reaction of fluorinated electrophiles that yield synthetically-versatile chiral fluorinated building blocks.

Georgia Tech Department of Chemistry and Biochemistry

Undergraduate Research Assistant under the direction of Jake Soper, Atlanta, GA

May 2016 - Dec. 2018

- Investigating direct fluorination reactions of organozirconocene reagents to produce vinyl fluorides.
- Investigating the optimal conditions for the reactions of silyl enol ethers with a radical CF₃ source in the presence of a Co(II) catalyst to produce α -trifluoromethylated ketones.

ACTIVITIES

Georgia Tech Chemistry Department, Lab and Recitation Teaching Assistant

Aug. 2017 - Dec. 2018

Freshman Chemistry Program CHEM 1310 TA

Chemistry and Biochemistry CHEM 2214 TA

- Facilitated weekly laboratory and recitation classes for first year chemistry students.
- Guided weekly pre-lab discussions to introduce students to laboratory class topics and led collaborative (group work oriented) environments for recitation classes and office hours.

Georgia Tech Undergraduate Research Ambassador, Vice President of Internal Affairs

Aug. 2018 - Present

- Manage volunteering of all members, budget for events, facilitate organization of for events
- Aim to help other Georgia Tech undergrad students find research opportunities and maintain healthy and productive research experiences