PITCHAYA (BEST) CHANTANAPONGVANIJ
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EDUCATION

B.A., Swarthmore College | Swarthmore, PA · August 2019 – May 2023
Double Major: English Literature and Computer Science; Pre-Med Track
Relevant Coursework: Linear Algebra, Discrete Math, Algorithms, Computer Networks, Natural Language Processing, Security and Privacy

High School Diploma, Phillips Academy Andover | Andover, MA · August 2015 – June 2019

RESEARCH EXPERIENCE

Ameet Soni's Lab, Department of Computer Science | Undergraduate Student Researcher · May 2022 – May 2023
- Developed recurrent neural network models to analyze planarian morphology and their behavior in response to various stressors for use in Professor Eva Maria Collins' biology research lab
- Extensively utilized OpenCV, scikit-image, and Tensor Flow to register, organize, and process recorded videos of planarians

Thomas Stephenson's Lab, Department of Chemistry | Laboratory Research Assistant · May 2021 – August 2021
- Research focused on the kinetics of unimolecular reactions in the atmosphere
- Utilized high-level electronic structure calculations combined with master-equation modeling to analyze the competition between bimolecular and unimolecular chemistry

NOTABLE PROJECTS

Gather | Co-Founder, CEO · October 2023 – Present
- Gather is an all-in-one food and recipe app designed to enhance the entire culinary experience
- Built iOS app codebase from zero to one, both front-end (SwiftUI) and back-end (Swift and Firebase)
- Developed a real-time object detection model based on YOLO to classify ingredients

WORK EXPERIENCE

Independent Consultant | Software Engineering · September 2023 – Present
- Worked on a variety of web development projects using Svelte and Tailwind
- Wrote Python backends for organizations to interact with GA4 and Salesforce data
- Wrote smart contracts on blocks chains for NFTs

Soleda AI | Software Engineer · July 2023 – Present
- Soleda AI is a dialogue agent designed to support marketing analysts with complex data analysis and allow them to do their best work
- Built out SvelteKit frontend of our web application and developed the backend to dynamically construct semantic meaning to data types in order to strengthen the NLU-based dialogue agent
- Added interactivity functionality to our tables and figures, allowing spreadsheet functionality and ability to translate users' gestures, actions, and various cursor movements to actionable metadata
- Integrated a generalized OAuth 2.0 pipeline to integrate users' data from vendors such as Google Analytics 4 and HubSpot into our system
- Conducted research on competitors as well as customer analysis

Artia Global Partners LP | Intern · May 2023 – July 2023
- Artia (AUM > $500 million) is a multidisciplinary investment firm with a focus on healthcare and life sciences ventures
- Conducted investment due diligence on healthcare companies through financial modeling and conversations with industry experts

The Phoenix | Editor-in-Chief · January 2022 – September 2022
- Editor-In-Chief of Swarthmore College's oldest independent, student-run newspaper
- Oversaw the daily operations of the paper, managing everything from the editing and publication process to the organization's finances
- Prior Roles: Managing Editor (Spring 2021), News Editor (Spring 2020 - Fall 2020), News Writer (Fall 2019)

PUBLICATIONS

- Hyun Kyung Lee, Pitchaya Chantanapongvanij, Rory R. Schmidt, and Thomas A. Stephenson (2023). Master Equation Studies of the Unimolecular Decay of Thermalized Methacrolein Oxide: The Impact of Atmospheric Conditions. Journal of Physical Chemistry A.

SKILLS

- Programming (Python, C, C++, Swift, SwiftUI, Bash, Java, Git, LaTeX, HTML, DuckDB, SQL, Svelte, SvelteKit, Javascript, Tailwind CSS, FastAPI, OAuth)
- Photojournalism and Filmmaking (film, digital)
- Photo and Layout Editing (Lightroom, Photoshop, Figma and InDesign)
- Language (English: Native; Thai: Native; Mandarin: Conversational)
- Digital Preservation and Archival Skills