

# That (Phukao) Prommolmard

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## Personal Statement

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As a Thai student with a background in psychology and computer science, I combine technical skill with an understanding of human behavior to design user-focused, research-backed solutions. This interdisciplinary approach ensures that my work is not only functional but deeply intuitive, making me a more thoughtful and effective design engineer.

## Related Experience

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### Front-end Developer

Grinnell, IA

Grinnell College

January 2022 – Present

- Designed and deployed a scalable web app for student connections and established the website as the college music events bulletin board using React and TypeScript.
- Collaborated with designers, improved accessibility and usability, resulted in a rise from 7-8 monthly users to 5-6 daily and 100+ weekend visits.
- Reduced bounce rates by 15% and doubled session duration to 4 minutes through design iterations backed by behavior analysis done on engagement data.

### Assistant Researcher

Grinnell, IA

Grinnell College

June 2023 – Present

- Built and optimized the first Julia library to analyzed gerrymandering in Thailand's multi-party system, cut down runtime from a week to two days both in theory and in practice.
- Established the first free-access database for policy advocates, gaining recognition from many local politicians.
- Research on political fairness broadened my perspective on problem-solving, integrating objective methods with broader structural critiques.

### Full stack Intern

Walnut, CA

SpaySecure Pet Services LLC

June 2022–August 2022

- Developed SpaySecure's website with Figma, Sketch, React, and JavaScript. Implemented user-centered design principles and behavioral analysis, average user registration time was reduced by 30%.
- Led Scrum meetings and sprint planning sessions, successfully coordinated cross-functional teams to meet project deadlines. Key features I led were consistently delivered around 1.5 weeks ahead of schedule.
- Quickly mastered React and JavaScript, enhanced my own skill of adaptability to team projects.

## Skills

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- Strong leadership and collaboration skills. Can be both a decisive leader and a team player.
- Excellent communication skills to simplify complex problems and lead productive and meaningful discussions.
- Quick learner, especially in fast-paced environment or on a tight deadline.
- Fluent in Python, R, SQL, Julia, JavaScript, C++, TypeScript, React, Java, and C. Active on GitHub.
- Experienced with Adobe Photoshop and Illustrator, Microsoft Word, PowerPoint, Excel, and Qualtrics.

## Education

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### Grinnell College

Grinnell, IA

Bachelor of Arts

Expected December 2024

- GPA: 3.448/4.00
- *Selected Coursework:* Analysis of Algorithms, Automata & Formal Language, Software Design & Development, Operating System & Parallel Algorithms, Object-Oriented Problem Solving & Data Structure, Imperative & Functional Problem Solving, Psychology Research Methods, Industrial Psychology, Psychology Seminar