

# JOSHUA DICKINSON

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## EDUCATION

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### Bachelor of Science, Computer Science

*Expected May 2026*

College of Science & Engineering, **University of Minnesota** - Twin Cities

GPA: 3.94 / 4.00, University Honors Program

Academic Honors: Dean's List (Fall 2022 to Spring 2024), Presidential Scholarship Recipient

Coursework includes: ML, Data Structures & Algorithms, Real-Time Systems, UX, Databases

## SKILLS

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Programming Languages: Python, JavaScript/TypeScript, OCaml, Java, C, C++, Go, x86-64 Assembly

Frameworks & Tools: React.js, AWS, SQL, Git, Figma, Docker, Postgres, MySQL

## WORK EXPERIENCE

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### Software Engineer Intern

*Summer 2024-Present*

SPS Commerce | Minneapolis, MN

*(Extended to Winter 2024)*

- Enhanced a full-stack React.js and Python migration application through features like AWS S3 integration, UI design, and Jira integration, improving efficiency by 70%
- Led development of and launched a Slack chatbot built with AWS tools, benefitting 1000+ employees and resulting in a 10% reduction in time spent on daily tasks
- Collaborated with a team of ~10 engineers, regularly participating in Agile workflows, leading sprint demos, and presenting project updates to diverse audiences ranging from 10 to 200 people

## PROJECTS

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### Sketch with Friends, Wala Games

*Summer 2024*

- Built a multiplayer drawing game using Go for real-time logic and React.js for front-end
- Designed scalable patterns for efficient real-time communication and player synchronization
- Utilized WebSockets to support smooth, low-latency interaction for users in a multiplayer environment

### honey, Independent Work

*Summer 2024*

- Developed VST3 plug-in for sound processing in C++ and JUCE framework
- Employed advanced reverb & bitcrusher digital signal processing algorithms, creating a more immersive sound experience
- Iterated from Figma designs to vivid and usable UI built with React.js

### TransitPal, HACKUIOWA '23

*Fall 2023*

- Drove creation of web app built with Next.js and Firebase to motivate use of public transportation
- Integrated features that visualize environmental impact and financial savings, resulting in greater user awareness and encouraging sustainable transit practices
- Received positive feedback from 20+ users during demos for its user-friendly design