JOSHUA DICKINSON

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EDUCATION

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

Programming Languages: Python, JavaScript, OCaml, Java, C, C++, Go, x86-64 Assembly
Frameworks & Tools: React.js, AWS, SQL, Git, Figma, Docker, Postgres, MySQL

WORK EXPERIENCE

Software Engineer Intern *Summer 2024-Present*

SPS Commerce | Minneapolis, MN (*Extended to Winter 2024)*

- Enhanced a full-stack React.js and Python migration application by adding features such as AWS S3 integration, API redesign, and Jira integration, improving migration efficiency by 80%
- Architected and launched a Slack chatbot using AWS tools, benefitting 1000+ employees and resulting in a 30% reduction in manual work
- Automated repetitive tasks via AWS, saving the team 3+ hours per sprint**.**
- 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

Sketch with Friends, Wala Games *Summer 2024-Present*

- Developed a multiplayer drawing game using Go for real-time handling 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