

# Andrew Lam

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## EXPERIENCE

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### Web Surfing Studios

Junior Software Engineer

Jan 2025 - Present

- Contributed to the public release of [pmtron.com](https://pmtron.com), an AI-powered project management platform, by collaborating with a remote team using agile sprints and version control.
- Participated in DevOps processes, including database migration coordination and environment-specific testing using CI/CD pipelines integrated with Web Surfing Studios' internal Git platform.
- Improved system scalability and maintainability by introducing a layered architecture and controller services by refactoring direct database access out of controllers.
- Resolved backend deployment failures by debugging Entity Framework migration conflicts and aligning MySQL schemas in CI/CD environments.
- Diagnosed and fixed validation issues across desktop and mobile by debugging JavaScript behavior and refining Bootstrap form error handling.
- Contributed ~21% of the PMtron codebase, ranking #2 in team contributions and accelerating project delivery.

### University of Minnesota Morris

IT Helpdesk Assistant

Aug 2022 - May 2023

- Resolved 300+ hardware and software support requests to improve campus-wide IT responsiveness using diagnostic tools, ticketing systems, and escalation procedures.
- Delivered one-on-one tech support and walkthroughs for login, printing, and network connectivity issues for students and faculty.

## PROJECTS

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PMtron | C#, ASP.NET MVC, MySQL, JavaScript, Bootstrap, jQuery

Aug 2025

[pmtron.com](https://pmtron.com)

- Developed **task tracking, workflow creation, and organization setup** features to support scalable team collaboration by using C#, ASP.NET MVC, and MySQL.
- Built responsive **modal forms** with **client/server-side validation** using Bootstrap and jQuery to streamline user interaction across devices.
- Implemented **secure logo upload** by storing images as **byte[]** in MySQL and binding them through **strongly typed view models**.
- Added protected access for **admin and owner roles** using **ASP.NET Identity** and **custom authorization filters**.

BuChatGo | Node.js, React, WebSockets, MongoDB, Cloudinary

Feb 2025

[buchatgo.onrender.com/](https://buchatgo.onrender.com/) | [github.com/AndrewLam288/BuChatGo](https://github.com/AndrewLam288/BuChatGo)

- Built a full-stack **chat app** with **JWT auth** and **real-time messaging** using WebSockets, React, and Node.js.
- Enhanced **upload performance** by integrating Cloudinary and **optimizing payload size** to resolve latency issues.
- Conducted **live testing** with 10+ users, fixing **connection dropouts** and **invalid token bugs** for stable sessions.

Scav-a-Snap | Java, TypeScript, MongoDB

May 2024

[github.com/UMM-CSci-3601-S24/iter-3-that?tab=readme-ov-file](https://github.com/UMM-CSci-3601-S24/iter-3-that?tab=readme-ov-file)

- Built a full-stack **scavenger hunt app** with **real-time score syncing** using TypeScript, Java, and MongoDB.
- Coordinated **1,020+ team commits** across **3 sprints** and resolved **API latency issues**.
- Tested during a **final class showcase** with 20+ students and professors actively using the platform.

## TECHNICAL SKILLS

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- Languages:** C#, JavaScript, Java, Rust, HTML/CSS
- Frameworks & Libraries:** ASP.NET MVC, React, Angular, Node.js, Bootstrap, jQuery
- Databases & DevOps:** MySQL, SQL Server, MongoDB, Entity Framework, CI/CD Pipelines, Cloudinary, Git

## EDUCATION

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University of Minnesota at Morris | Morris, MN

B.A. in Computer Science

Expected Graduation 2026

- GPA (Major):** 3.43 /4.0 | **Dean's Honor List** (Fall 2023, Spring 2024, Fall 2024)