

# YOUNG KIM

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## EDUCATION

### Seattle University

Master of Science in Computer Science

- GPA 4.0/4.0

March 2025 – March 2027

Seattle, WA

### University of Washington

Bachelor of Science in Computer Science & Systems, Minor in Mathematics

- GPA 3.81/4.0
- Dean's List Honoree (Multiple Quarters)
- Researched evolutionary AI and predator-prey simulations, extending neural network input capacity for binocular vision and co-authoring a published paper.

September 2021 – March 2024

Tacoma, WA

## EXPERIENCE

### Software Engineer Intern

Hawl Technologies, LLC

- Developed and maintained **full-stack features, designing scalable backend services and APIs** by integrating file upload pipelines, enriching API LLM prompts, and persisting user settings in MongoDB with session storage fallback, reducing user setup time by 40% and demonstrating strong problem-solving, debugging, and a strong understanding of data structures and algorithms.
- Improved UI responsiveness by 35%** by refactoring React + TypeScript state management, optimizing event handling and cross-browser rendering, and streamlining AJAX (Fetch API) calls with JSON payloads, applying attention to detail in design and performance tuning.
- Enhanced data accuracy and relevancy by 35% by integrating Google Custom Search API into an MCP server**, implementing structured query handling, and fine-tuning response filtering, collaborating effectively in team discussions and written communication.

June 2025 – Present

Remote

### Software Engineer Intern

Bilimetrix USA

- Improved unit **test maintainability by 30%** by centralizing redundant mock data into a helper module, demonstrating attention to detail in debugging and design, in a C# Microsoft Blazor codebase.
- Boosted diagnostic accuracy by 20% by engineering a pixel-brightness-based shadow detector, applying problem-solving in algorithm design for medical image analysis.
- Actively contributed to design discussions and code reviews by managing GitHub source version control, writing comprehensive unit tests, and implementing CI pipelines to ensure **100% code coverage**. Utilized Microsoft **Azure** to host the application.

June 2025 – August 2025

Remote

### Research Associate

University of Washington

- Increased neural network robustness** by extending input capacity for binocular vision, enabling agents to process dual-eye perspectives with configurable parameters for more realistic predator-prey behavior, improving accuracy by 25%.
- Visualized evolutionary progress through an interactive UI, allowing users to observe agent behaviors and adaptation trends over time.
- Enabled agents to evolve hunting and gathering strategies by implementing generational neural network adaptation, vision-based perception, and resource-driven survival mechanics.
- Co-authored a research paper** documenting methodology and findings, strengthening the project's scientific contribution and demonstrating strong written communication.

September 2023 – March 2024

Tacoma, WA

## PROJECTS

### SeaTrack | JavaScript, SQL, HTML, CSS, React.js, Node.js, Express.js, PostgreSQL

March 2025 - Present

- Developed a full-stack time-tracking web application to log and manage dates, times, and user activities, applying **Agile Scrum methodologies** in an agile software development team environment.
- Built robust, user-focused application logic and business rules by **deploying RESTful API endpoints** with Express.js for CRUD operations, connecting a React.js frontend to a PostgreSQL backend following good database principles and design.
- Improved usability and performance by implementing session-based authentication with UUIDs, designing reusable UI components, and server-side REST query filtration, reducing manual entry by 40% and query load times by 30%.
- Collaborated in a team using professional software engineering practices for full software development life cycles by **regularly partaking in code reviews, testing, upholding coding standards, and regular stand-up meetings**.

## TECHNICAL SKILLS

**Languages:** JavaScript, Python, TypeScript, Java, C#, HTML, CSS, SQL, C

**Frameworks:** React.js (experienced with TypeScript), Node.js, Next.js, Express.js, .NET, FastAPI, Flask

**Tools:** Git, GitHub, Azure, AWS, Docker, Unity, Ubuntu, Postman, Overleaf, Visual Studio

**Database:** MySQL, PostgreSQL, MongoDB