

# Andrew Kim

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Interdisciplinary software engineer looking for opportunities in back-end, front-end, and/or full-stack, with additional experience in simulation / visualization software and game development

## Work Experience

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### MoodRoom

Seattle, WA

#### *Lead Game Developer — Game Development*

May 2025 – Present

- Conceptualized and built a minimum viable product (MVP) that effectively demonstrated product potential and secured interest from venture capital investors, raising over \$100,000 in funding.
- Responsible for building and porting mobile app into multiple platforms, including iOS and Android, creating 1000+ wishlists and 4,000+ beta sign-ups during early access.
- Directed technical decision-making across a 5-person cross-functional team (design, art, and engineering), balancing innovation with scope management to ensure 95% of sprint deadlines were met on time.
- Architected and developed core gameplay systems from the ground up using the Godot engine, delivering performant and engaging player experiences.

### Schindler Iterative Translation Lab, VA Puget Sound Medical Center

Seattle, WA

#### *Data Engineer — Machine Learning and Data Visualization*

January 2025 – June 2025

- Processed and cleaned 1.2+ TB of mouse behavioral data to visualize polysubstance use in mice, enhancing data interpretation and downstream efficiency by 35%.
- Selected and implemented a variety of machine learning models, including K-Means clustering, Multiple Correspondence Analysis (MCA) and Principal Component Analysis (PCA), reducing feature dimensionality by ~70% while preserving behavioral variance.
- Designed and deployed interactive data visualizations including dendograms, heatmaps, and 15+ high-impact dashboards to facilitate improved decision-making for the research team.
- Co-authored a peer-reviewed research paper by contributing critical data engineering and visualization methodologies.

### Lizard Tank, LLC.

Seattle, WA

#### *Lead Game Developer — Game Development*

July 2024 – Present

- Architected, designed, and implemented a custom physics system, saving the company thousands of dollars by eliminating the need for third-party solutions, while ensuring realistic and dynamic object interactions for enhanced gameplay.
- Developed and optimized user interface (UI) systems, reducing user frustration and saving hours of potential disengagement, resulting in increased player satisfaction and significantly boosting overall game and product engagement.
- Engineered AI behaviors using state machines and advanced algorithms for path planning and obstacle avoidance, leading to intelligent and responsive non-player character (NPC) movement.

### MathWorks Inc.

Natick, MA

#### *Software Engineer — Engineering Development Group*

May 2022 – June 2024

- Architected and built a back-end research tool that enabled customers to efficiently sift through thousands of third-party analog devices and automatically generate relevant specification plots, saving over 1000 man hours of manual web searching.
- Built the first proof of concept, integrating Simulink with Unreal Engine for a leading construction firm, enabling virtual testing that saved ~\$1M per vehicle on real-world testing and potential equipment damage.
- Led as Scrum Master and Operations Lead a team of 50+ engineers to efficiently assist hundreds of industry leading companies and academic institutions in defense, tech, biomedical, etc., with troubleshooting MATLAB and Simulink models as quickly and accurately as possible.

## Technical Skills

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### Programming — C++, MATLAB, Python, Java, C#, GDScript, React

### Software — Simulink, LabView, Microsoft Office, Perforce, GitHub, Git, Visual Studio, Godot, Unity

### Mechanical — SolidWorks, Catia v5, Autodesk Inventor

## Publications & Certifications

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Anxiety and risk-taking behavior maps onto opioid and alcohol polysubstance consumption patterns in male and female mice

<https://www.biorxiv.org/content/10.1101/2024.08.22.609245v2.full>

AWS Machine Learning Specialist

## **Education**

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**Western Governors University**

Master of Science in Computer Science and Artificial Intelligence (MSCS)

**Remote / Salt Lake City, UT**

*May 2025 – December 2025*

**Purdue University**

Bachelor of Science in Astronautical and Aeronautical Engineering (BSAAE)

**West Lafayette, IN**

*May 2022*