

## Alexander Lavrenenko

### CONTACT INFORMATION

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## EDUCATION

**University of Massachusetts Amherst** | College of Information and Computer Sciences

Exp. Graduation Aug 2024

B.S. in Computer Science and Mathematics (double major)

GPA: 3.9

### Coursework:

Software Engineering, Algorithms, Dynamic Programming, Programming Methodology, Operating systems and Networking, Natural Language Processing, Computer Graphics

## SKILLS

**Proficient programming Languages:** Python, Java, Kotlin, JavaScript

**Tools:** TDD, SOLID, OOP, SQL, GitHub, APIs, Slack, Linux Command Prompt, TensorFlow, Pandas, SK Learn

**IDE's:** Android Studio, Visual Studio Code, IntelliJ Idea, PyCharm, Jupyter Notebook, NetBeans, Atom

## WORK EXPERIENCE

### Software Developer - Portal

May 2022-Now

- Co-owner and leader of the software development team.
- Oversaw the development of extended reality glasses using proprietary optical waveguide technology.
- Utilized Python and CUDA for simulation and algorithm development.
- Developed simulation codebases to accurately simulate the physics of light.

### Software Developer - Microsoft, Nuance

Dec 2021-Feb 2022

- Developed a showcase chatbot to demonstrate platform capabilities.
- Utilized Python and JavaScript to develop a demo chatbot.

### Android Developer Intern - MoodMe

Feb – Apr 2022

- Founded an Android project for background removal.
- Enhanced efficiency by 60% using Bazel with C++ in Visual Studio.

### Software Developer Intern - Russian Academy of Sciences

Jun 2020 – Sep 2020

- Automated manual Gaussian peak-solving task.

### Software Developer Intern - TAU Tracker Company

Nov 2019 – Oct 2020

- Enhanced magnetic coil simulation algorithms on MATLAB.

## PROJECTS

### 3D Browser Engine

- Developed 3D browser engine with JavaScript, WebGL, and GLSL.

### SkinSafe application – 48hr hackathon team project

- Developed Java Android application.
- Proficient in Java, Python, TensorFlow, Material Design and CNN.

### AI lab – the collection of projects

- Mastered Machine Learning techniques.
- Proficient in segmentation, TensorFlow, Pandas and Jupyter Notebook.

## LEADERSHIP EXPERIENCE

### Computer Science Club

- Mentored 5 members in coding and project implementation.