

# Di Lu

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## EDUCATION

**University of Pennsylvania**

**Philadelphia, PA**

**School of Engineering & Applied Science**

- **BSE in Computer Science & Computer Graphics (Digital Media Design)**

**SEP 2018 - MAY 2022**

- Cumulative GPA: 3.51/4.00
- **Relevant Coursework:** Advanced Rendering (C++/GLSL), Applied Machine Learning (Python), Scalable & Cloud Computing (AWS, Node.js, Apache Spark), Introduction to Computer Graphics (C++/OpenGL), Data Structures & Algorithms (Java), Mathematical Foundations of Computer Science (Discrete Math)

- **MSE in Computer Graphics & Game Technology**

**JAN 2021 - MAY 2023**

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## WORK EXPERIENCE

**Software Development Engineer Intern**

**Seattle, WA**

**Amazon**

**JUN 2021 - AUG 2021**

**Teaching Assistant, Introduction to Computer Graphics (CIS 460/560)**

**Philadelphia, PA**

**University of Pennsylvania**

**JAN 2021 - PRESENT**

- Held office hours to help students debug projects in rasterization, OpenGL, half-edge mesh, and mini Minecraft.
- Responsible for grading quizzes and homeworks, and answering conceptual/debugging questions on Piazza.

**Tutor, Mathematical Foundations of Computer Science (Discrete Math)**

**Philadelphia, PA**

**UPenn Weingarten Learning Resources Center**

**FEB 2020 - JAN 2021**

- Group tutoring to students who are taking discrete math, providing study tools and leading through homework and lectures, running exam prep review sessions
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## LEADERSHIP & PROJECT EXPERIENCE

**Monte-Carlo Pathtracer - CIS561 Advanced Rendering**

- Built a Monte-Carlo path tracer in C++ with lighting integration (Naive, Direct Lighting, Full Lighting) and material models.

**IMDB Sentiment Analysis Classifier - CIS419 Applied Machine Learning**

- Used sklearn package in python and Stanford + Cornell datasets to train 5 ML models with Bag of Words and TFIDF representation of words to produce sentiment analysis of IMDB film reviews.

**Mini-Minecraft - CIS560 Introduction to Computer Graphics**

- Created Minecraft in C++, wrote an efficient chunk-based terrain rendering method; Wrote shaders in OpenGL that applies minecraft textures from a file to surface of blocks; Wrote time-based shaders to animate water and lava; Implemented NPC movement and collision to navigate terrain.

**Mini-Facebook, Front-End Developer - NETS212 Scalable & Cloud Computing**

- Built a Facebook app on a team of four using Node.js. Designed and coded page layouts in ejs, implemented live posts/comments/search bar suggestions via .ajax. Gained Database experience with Amazon AWS and Dynamodb

**Marketing Chair/President 2021-2022**

**UPGRADE (UPenn Game Research & Development Environment Club)**

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## ACTIVITIES & VOLUNTEER

**AMC SIGGRAPH Conference Student Volunteer** (August 2020)

**National Student Leadership Conference (Game Design)** (2016)

- Designed a video game in Unity 3D within 10 days in a team of three students
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## TECHNICAL SKILLS AND INTERESTS

**Languages (fluent):** English, Mandarin

**Programming:** Java, C/C++, React Native, JavaScript

**Creative Programs:** Adobe Creative Suite, Unity 3D, Autodesk

Maya, ZBrush

**Music:** Classic vocal (4+ years), flute (9+ years)