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Arden Rasmussen

Education

2012–2016 **High school**, *Earl Wooster*, Reno, NV.
Graduated with International Baccalaureate degree with focus in Math, Chemistry, and Physics.

2016–2020 **BS**, *Lewis & Clark*, Portland, OR.
Majoring in Computer Science & Mathematics and Physics. GPA: 3.7

Experience

2016–2016 **IT**, *Lewis & Clark*, Portland, OR.
Working at the resource lab with Adobe suit, and assisting students and professors with computers.

2016-2018 **Grading**, *Lewis & Clark*, Portland, OR.
Grading for a selection of the Physics, Computer Science, and Mathematical courses.

2019 **Software Developer Engineer Intern**, *Amazon*, Palo Alto, CA.
Working on Alexa Product Community Answers.

Programming Languages

C/C++	**Expert**	*10 years*
Python	**Intermediate**	*4 years*
Javascript	**(React, Node.js, Express.js) Intermediate**	*3 year*
OS	**(Linux, Windows) Expert**	*8 years*
GPU	**(OpenGL, OpenGL, Cuda) Intermediate**	*2 years*
AI	**(TensorFlow, PyTorch, C++)**	*2 years*

Relevant Courses

Physics

- Theoretical Dynamics
- Electricity & Magnetism
- Computational
- Quantum

Math

- Real Analysis
- Advanced Topology
- Complex Variables
- Differential Equations

CS

- Artificial Intelligence
- Computer Graphics
- Theory of Computation
- Computer Architecture

Relevant Projects

Lexici I constructed an algorithmic and historical comparison of 20 different programming languages.

Ray Tracer	I programmed an implementation of a ray tracer, incorporating retractions, reflections, and model loading.
Chat Client	I developed the frontend and backend of a chat server, implementing rich text messages.
Mathematical	I created an interpreted language for evaluating arbitrary mathematical expressions, with arbitrary precision.
FEM	Independent research into the mathematics and developing an implementation of finite element method.

References

Name	Email
Robbie Brackett	brackr@amazon.com
Jeffrey Ely	jeff@lclark.edu
Paul Allen	ptallen@lclark.edu