



# MIKHAIL BOGDANOV

New grad applicant - Grad Date: June 2026

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## TECHNICAL SKILLS

### languages:

C++

C

Java

Python

Dart

TypeScript

### frameworks/API:

OpenGL

Flutter

Firebase

Spring boot

React

### others:

Photoshop

Adobe Illustrator

Premier Pro

Visual Studio

Linux

## EDUCATION

Combined Honors:

### COMPUTER

### SCIENCE & PHYSICS

University of British

Columbia

Grad Date: June 2026

Robotics Club

Shawnigan Lake School

## REFERENCES

Available Upon Request

## PROFILE

As a Fourth-year honors student pursuing a combined degree in Computer Science and Physics, I am actively seeking a full time position, remote or in person which would let me apply my theoretical knowledge with practical experience in order to develop the beginning of my career. I have a deep seeded passion for writing high speed, scalable algorithms which I showcase in my work and personal projects. In addition, my interests extend to physics simulation, meshing and UI design, as reflected in my creation of a game engine, chess engine and mobile applications.

## WORK EXPERIENCE:

### ANSYS (now Synopsis) meshing intern

Jan 2025- Aug 2025

(C++, QT, Python, Visual studio)

- implemented algorithms to efficiently translate meshes from the public Ansys electronics formats such as ngmesh and G3D to an internal research structure.
- Helped develop an internal meshing application (Prime) to better represent the required file formats.
- Improved efficiency by allowing users to choose which sections of the model they want imported, reducing the number of elements that had to be transferred and rendered on the GPU.

### Research under Carl Ollivier-Gooch UBC

sept 2025- april 2026

(C++, Eclipse, Linux)

- Working on researching high speed algorithms for edge generation and detection of 3D surface meshes

### Software development for PARSEC

sept 2025- april 2026

(C++, QT, OpenGL)

- Created software for a student run non profit, space technologies company to send and receive data from a microcontroller hardware and display it in a 3D view port.

## PERSONAL PROJECT WORK

### 2D Mesher

June 2025- current

(C++, OpenGL, Visual studio)

- Constrained 2D mesher from scratch
- Profiled my application to demonstrate the real world near linear performance.
- Github [link](#)

### 3D PHYSICS ENGINE, C++, openGL

October 2023- march 2024

(C++, OpenGL, Visual studio)

- Implemented a unique rendering and physics engine based on the book "Physics Engine Development", by Ian Millington
- Customized the engine using shaders to render in the terminal for a unique art style
- Successfully applied solid collision detection, contact point generation, impulse generation, and friction in the engine
- Code and demonstration for my physics engine can be found on my GitHub [here](#)

### CHESS ENGINE Java, react, spring boot

May 2023 - September 2023

(C++, Java, TypeScript, Spring boot, React)

- Successfully developed a 1200 rated chess engine in C++
- Translated the chess bot to JAVA for a second-year Computer Science course, incorporating multithreading
- created a react app with the ability to view previous and current games
- Github [link](#)

### Social media app

May 2015 - August 2017

(Dart, Flutter, Firebase)

- [Social Media app](#) created as a personal project to help me improve front and back end app development skills