# Ian B Fleming

Software Engineer, Computer Science

## Education

Bachelor's in Computer Science August 2020 to December 2023
University of Idaho, Moscow, ID
**3.57 GPA**

### Relevant Projects:

- **Senior Capstone Design Project**
  - Clients: USDA National Forest Service
  - Developed devices that measure velocity of streams
  - Programmed code on Arduino microprocessors
  - Programmed Android app used to control the devices
  - Utilizes wireless communication and Bluetooth
- **Micro-controller programming (Arduino)**
  - Programmed simple and reliable code to process sensor data and send it wirelessly over Bluetooth to an app
  - Master-slave behavior, sequential processing, Bluetooth, and state-machine design
- **Full Stack projects (Django, React)**
  - Created a mock website for a merchandise store using various backend libraries such as SQLite3
  - Created my portfolio website with basic UX design and scripting
- **Game development in Unity and Unreal Engine**
  - In a project group, created a dungeon master chessboard style game. Managed the world space and interactions.
  - Personally, developed a game that covers basic modern day implementations. First/third-person, interactions, animations, landscape, modeling, user interfaces, etc.
- **Experience in Android app development**
  - Created an Android app that utilizes Bluetooth to communicate with a device
  - Live data feedback, responsive UI, reliable functionality
- **Machine Learning**
  - Using models, I used machine learning to calculate the average forest cover types at the Roosevelt National Forest, Colorado
- **Data Analysis**
- **Basic scripting/optimizations in Window systems**

## Professional Experience

| The Grove Apartments | Concierge |
|---|---|
| Moscow, Idaho | September 2022 to Present |
| **Cosmic Cowboy Grill** | Line Cook |
| Coeur d'Alene, Idaho | April 2019 to August 2022 |
| **Olive Garden** | Line Cook |
| Coeur d'Alene, Idaho | December 2020 to August 2021 |
| **Roger's Burgers** | Line Cook |
| Coeur d'Alene, Idaho | August 2016 to July 2017 |
| **Fred Meyer** | Store Clerk |
| Coeur d'Alene, Idaho | November 2017 to February 2018 |
| **CDA Charter Academy** | Assistant Tennis Coach |
| Coeur d'Alene, Idaho | February 2020 to May 2021 |

## Expertise

C/C++/C#
Python
Full Stack
Java/JavaScript/Kotlin
YACC/Bison
Unix
Windows

## References

Herbert Hess, PhD., PE
(208) 885-4341
Professor of Mechanical Engineering, U of I
Mentor & Instructor

Steve Eller
(512) 470-6711
Cosmic Cowboy Grill
Owner

Brian King
(208) 217-4575
Coeur d'Alene Charter Academy
Head Tennis Coach

Saban Ursua
(208) 725-3384
The Grove at Moscow
Assistant General Manager

Michael Wilder, PhD.
(208) 885-1549
Professor of Computer Science
University of Idaho

## Contact

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