



## EDUCATION

### University of Illinois at Urbana-Champaign

B.S. in Computer Engineering  
Minor in Business  
Minor in Informatics  
Graduating: May 2022  
GPA: 3.52/4.00

## TECHNICAL SKILLS

Java  
 C/C++  
 Python  
 SQL  
 Javascript  
 LC-3 Assembly

## TOOLS

Git  
 Visual Studio  
 Android Studio  
 MongoDB  
 Jupyter Notebook

## COURSEWORK

Data Structures  
Algorithms & Models of Computation  
Database Systems  
Computer Systems Engineering  
Applied Parallel Programming  
Artificial Intelligence

# CALEB CHOW

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## WORK EXPERIENCE

### Capital One

Software Engineering Intern

June 2021 - August 2021  
McLean, VA

### Cargill

Software Engineering Intern

January 2021 - April 2021  
Champaign, IL

### BP

Data Science/AI Intern

September 2020 - December 2020  
Champaign, IL

- Designed image processing technique using edge detection models to read analog gauges on wind turbines
- Visualized temperature and vibration data using to determine remaining useful life of bearings

### Opptin

Android Developer Intern

March 2020 - June 2020  
Scranton, PA

- Developed and tested location geo-fencing to map specific rooms or areas within buildings in a user-selected area
- Implemented a REST API to manage user token authorization, encryption, and space data in JSON format from a database

## SELECTED PROJECTS

### UIUC Toilet App | Java

- Published Play Store app to navigate a user to the current closest bathroom on the UIUC campus
- Deployed a REST API with Express, Mongoose, and Node.js to update bathroom locations from MongoDB

### Fantasy Basketball Buddy | SQL

- Designed MySQL database to store all NBA player stats, as well as stored procedures to calculate player value
- Deployed a MongoDB which fetches all current NBA player injuries to calculate percent value dimisher

### 2048 Solver | C

- Designed a recursive backtrack algorithm to check for all possible moves at any point of a game
- Allocated and de-allocated memory dynamically for each cell in game creation and destruction to improve efficiency

## LEADERSHIP & ACTIVITIES

### Pulse Horizons

Corporate Outreach Member

September 2018 - Present

- Plan presentations by company executives during Pulse Horizons Conference, largest annual ECE conference at UIUC
- Manage relationships with representatives from corporations (NVIDIA, Amazon, TI, Samsung) to secure sponsorships