

# Computer Scientist

compsci@grinnell.edu | 555.555.5555 | linkedin.com/in/compsci

## Education

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*Bachelor of Arts* expected May 2023  
**Grinnell College** Grinnell, IA

- Selected coursework: Functional Problem Solving, Imperative Problem Solving, Linear Algebra

## Experience

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*Student Worker* August 2019 – May 2020  
**Dining Services, Grinnell College** Grinnell, IA

- Carefully and efficiently follow standard operating procedures for safe food handling
- Communicate and collaborate with team members

*Member* Fall 2017 — Spring 2019  
**Appleton High School Robotics Team** St. Louis, MO

- Led design process to create robots for the regional competition
- Developed code for servo motors using C
- Debugged and documented code for full team

*Lifeguard* Summer 2017 – 2019  
**Community Aquatic Club** St. Louis, MO

- Delivered excellent customer service to patrons
- Maintained a safe environment by enforcing pool rules and policy
- Executed lifeguard rescue and medical training with correct split-second decision making

## Community Engagement

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*Team Member* August 2019 – present  
**Varsity Basketball, Grinnell College** Grinnell, IA

- Maintain a balanced academic and work schedule while dedicating 20 hours per week to athletics for practice, games, travel, training, and meetings

## Projects

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**Sudoku Solver** | Scheme  
 GPU multithreaded sudoku solver. Solves approximately 1,000,000 sudokus per second.

**Password Cracker** | C  
 Recover a list of user's passwords from a database of MD5-hashed passwords implementing POSIX multithreading.

## Skills

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*Programming Languages:* C, Scheme  
*Software:* Microsoft Office, G Suite

# Computer Scientist

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## Education

*Bachelor of Arts, Computer Science* expected May 2023

**Grinnell College** Grinnell, IA

- *Selected coursework:* Object-Oriented Problem Solving, Data Structures & Algorithms; Discrete Structures; Applied Statistics

## Work Experience

*Mentor, Functional Problem Solving* August – December 2020

**Department of Computer Science, Grinnell College** Grinnell, IA

- Provided mentorship and expertise to 24 introductory computer science students
- Gathered and synthesized student feedback on experience and comprehension
- Researched and provided educational programming resources to students

*Student Worker* August 2019 – May 2020

**Dining Services, Grinnell College** Grinnell, IA

- Carefully and efficiently follow standard operating procedures for safe food handling
- Communicate and collaborate with team members

## Community Engagement

*Pioneer Capital Investments* August 2020 – present

**Grinnell College** Grinnell, IA

- Helped manage a \$100,000 fund in various financial markets
- Created stock crawler programs and dashboards for club members
- Created reports on financial markets to inform club investment strategy

*Team Member* August 2019 – present

**Varsity Basketball, Grinnell College** Grinnell, IA

- Maintain a balanced academic and work schedule while dedicating 20 hours per week to athletics for practice, games, travel, training, and meetings

## Projects

**NLP: Research Paper Classification by Abstract in Python** | Python

Created NLP pipeline and applied LSTM and Transformer models to predict the subject of each research paper by its abstract, reaching 92% accuracy

**Sudoku Solver** | Scheme

GPU multithreaded sudoku solver. Solves approximately 1,000,000 sudokus per second.

**Password Cracker** | C

Recover a list of user's passwords from a database of MD5-hashed passwords implementing POSIX multithreading.

## Skills

*Programming Languages:* C, Java, Scheme, HTML, CSS,

*Software & Technology:* Minitab

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## Education

*Bachelor of Arts, Computer Science; concentration in Statistics* expected May 2023  
Grinnell College Grinnell, IA

- *Selected coursework:* Operating Systems & Parallel Algorithms; Software Design & Development; Intro to Data Science

## Technical Experience

*Technology Consultant* January 2021 – present  
Information Technology Services, Grinnell College Grinnell, IA

- Diagnose, troubleshoot, and repair software and hardware issues for faculty, staff, and students
- Maintain thorough and accurate records through ticketing system

*Student Researcher* May – August 2021  
Department of Computer Science, Grinnell College Grinnell, IA

- Investigated evolution of mutualism by simulating virus and bacterial interactions in C++
- Facilitated regular group meetings to review progress, incorporate feedback, and share results
- Presented results to faculty and students at undergraduate research symposium

*Mentor, Functional Problem Solving* August – December 2020  
Department of Computer Science, Grinnell College Grinnell, IA

- Provided mentorship and expertise to 24 introductory computer science students
- Gathered and synthesized student feedback on experience and comprehension
- Researched and provided educational programming resources to students

## Community Engagement

*Elected Representative, Student Educational Policy Committee* May 2022 – present  
Department of Computer Science, Grinnell College Grinnell, IA

- Advocate for ~130 computer science majors to department faculty leadership
- Facilitate student interviews of tenure-track CS faculty applicants; collect and synthesize student feedback on applicants for search committees

*Pioneer Capital Investments* August 2020 – present  
Grinnell College Grinnell, IA

- Collaboratively manage a \$100,000 fund in various financial markets
- Create reports on financial markets to inform club investment strategy
- Created stock crawler programs and dashboards for club members

*Team Member* August 2019 – present  
Varsity Basketball, Grinnell College Grinnell, IA

- Maintain a balanced academic and work schedule while dedicating 20 hours per week to athletics for practice, games, travel, training, and meetings

## Projects

**Virus Spread Simulator** | visually model spread of COVID-19 and impact of quarantine | **Java**  
**Funds Transfer Program** | prototype of app to manage funds in multiple banks | **Java, MySQL**  
**NLP Research Paper Classification** | predict subject of research papers by abstract | **Python**

## Skills

*Programming Languages:* C, C++, Java, Python, MySQL, Ruby on Rails, HTML

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## Education

*Bachelor of Arts, Computer Science; concentration in Statistics*

expected May 2023

**Grinnell College**

Grinnell, IA

- *Selected coursework:* Operating Systems & Parallel Algorithms; Software Design & Development; Analysis of Algorithms; Applied Data Science

## Technical Experience

*Data Science Intern*

May – August 2022

**SAS**

New York, NY

- Built rule-based models in SQL to identify 50 suspicious bank customers from over 100 million active monthly active customers, improving precision by 40%
- Developed NLP models for categorizing bank customers' complaints by product types and customer perceptions

*Technology Consultant*

January 2021 – May 2022

**Information Technology Services, Grinnell College**

Grinnell, IA

- Diagnosed and repaired software and hardware issues for faculty, staff, and students
- Maintained thorough and accurate records through ticketing system

*Student Researcher*

May – August 2021

**Department of Computer Science, Grinnell College**

Grinnell, IA

- Investigated evolution of mutualism by simulating virus and bacterial interactions in C++
- Facilitated regular group meetings to review progress, incorporate feedback, and share results
- Presented study and conclusions to faculty and students at undergraduate research symposium

## Community Engagement

*Elected Representative, Student Educational Policy Committee*

May 2022 – present

**Department of Computer Science, Grinnell College**

Grinnell, IA

- Advocate for ~140 computer science majors to department faculty leadership
- Facilitate student interviews of tenure-track CS faculty applicants; collect and synthesize student feedback on applicants for search committees
- Develop and execute marketing campaign which increased student participation in workshops, department talks, and social events by 20% over previous academic year

*Pioneer Capital Investments*

August 2020 – present

**Grinnell College**

Grinnell, IA

- Collaboratively manage a \$100,000 fund in various financial markets
- Created stock crawler programs and dashboards in Power BI
- Built membership from initial group of 4 students to 32 regularly engaged members

## Projects

**Virus Spread Simulator** | visually model spread of COVID-19 and impact of quarantine | **Java**

**Funds Transfer Program** | prototype of app to manage funds in multiple banks | **Java, MySQL**

**Poker Simulation** | simulate and visualize outcomes of poker hands | **Ruby on Rails**

**Cryptocurrency Price Tracker** | dynamically visualize price movements over time | **D3.js, MySQL**

**NLP Research Paper Classification** | predict subject of research papers by abstract | **Python**

## Skills

*Programming Languages:* C, C++, Java, Javascript, Python, R, MySQL, Ruby on Rails, HTML, LaTeX, D3.js

*Statistical Software:* Minitab, Stata, Power BI, Tableau

*Certifications:* Advanced Programmer, Machine Learning Specialist, Statistical Business Analyst (SAS)