

VINCENT BOWEN

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EDUCATION

University of Colorado Boulder

August 2021 – May 2026

*Bachelor of Science in Computer Science | Minor in Biomedical Engineering
Accelerated Master of Science in Computer Science*

GPA: 3.67

EXPERIENCE

Course Assistant & Manager

August 2023 – Present

University of Colorado Boulder

Boulder, CO

- Serve as course assistant for CSCI 3022 - Intro to Data Science and course manager for both CSCI 5200 - Intro to Wireless Systems and CSCI 3022, providing academic guidance and fostering student success
- Developed and published a Python package, simple-latex-checker, using RegEx to help students debug LaTeX formatting issues in Jupyter Notebooks

Software Engineering Intern

May 2024 – August 2024

The Cigna Group

Denver, CO

- Optimized pipeline run times and enhanced the readability of NeoLoad performance testing reports for internal and external web applications and APIs
- Developed Python modules to retrieve, format, and store performance test data on network-attached storage, and automated report comparison across multiple code versions using Jenkins pipelines
- Implemented a solution that saved over 2,500 hours of pipeline run time per development team per sprint, streamlining performance testing and report review processes

PROJECTS

CignaVerse | JavaScript, React Native, Expo, AWS

- Collaborated with a team of interns to design and develop an Android application, featuring a community forum and an AI-powered health assistant to help policyholders navigate insurance information
- Architected and implemented two DynamoDB tables for managing user information & post data, and Cognito user & identity pools to securely connect verified users to API Gateway
- Implemented a Lambda function to log reported posts to CloudWatch for human review

Ambulance Dispatch Simulator | Java, Java-WebSocket, Neo4j, GSON

- Developed a full stack web application to simulate ambulance dispatching based on shortest path algorithms
- Utilized a graph database, front-end visualization technology, data serialization/deserialization, and five classic object-oriented design patterns

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C/C++

Frameworks: React, React Native, Expo, Dash, Bootstrap, JUnit, Pytest, Docusaurus

Developer Tools: Jenkins, CloudBees, Postman, Neo4j, GitHub Actions, Git

Cloud Services: Cognito, DynamoDB, API Gateway

EXTRACURRICULAR ACTIVITIES

Google Developer Student Clubs - CU Boulder

President | North America Leads Advisory Committee Representative

January 2023 – Present

- Led and organized a 200+ member chapter aiming to help students learn, grow, and connect
- Hosted 7 events where members of industry taught students about: Flutter, Dart, Google Cloud, Kotlin, and PaLM 2
- Support new leads at 14 universities in the Rocky Mountain region of the US and Canada

Machine Learning Engineer

March 2023 – April 2024

AI for Good Foundation

- Volunteered on the Climate Trend Scanner supported by the United Nations Development Programme, the Research Institute of Sweden, BWA Design, and Microsoft
- Created a graph database with Neo4j and Cypher to connect extracted entities from a natural language processing learning model for data visualization of complex use cases
- Cleaned data and automated database loading using Python to increase performance and accuracy