

Daming Wang

720-220-8416 | damingwang917@gmail.com | [linkedin.com/in/daming-wang-0a9a8b1bb/](https://www.linkedin.com/in/daming-wang-0a9a8b1bb/) | github.com/dwang917

EDUCATION

Colorado School of Mines

Graduation: 12/2024

M.S. in Computer Science (GPA: 3.86)

2023 - 2024

B.S. in Computer Science with a focus in Data Science (Magna Cum Laude, GPA: 3.78)

2019 - 2023

3x CMAPP Scholar with Datava, Salesforce, Pax8 | 4x Dean's List Honor | Alpha Phi Omega Fellowship Chair

SKILLS

- **Proficient Languages:** Java | Python | JavaScript | TypeScript | C++ | Kotlin | PHP | HTML | CSS | SQL
- **Frameworks:** Spring MVC | Spring Boot | Node.js | Express.js | Vue.js | React
- **Databases:** PostgreSQL | MySQL | MongoDB | Redshift | S3
- **Cloud & Tools:** AWS | Docker | Kubernetes | Kafka | Git | Terraform | Airflow | Spark | Tensorflow | Pandas
- **Other skills:** Agile methodology | Technical documentation/knowledge base writing | Chinese fluency

WORK EXPERIENCE

Datava, Golden, CO | Software Engineer Intern | 05/2024 – 08/2024 | (PHP, JavaScript, MySQL, AWS)

- Designed and executed robust unit and integration tests using **Codeception** and **PHPUnit**, achieving over 80% test coverage for five modules' API endpoints, encompassing 10,000+ lines of business-critical logic.
- Steered a team of 3 engineers and automated data validation processes for API requests, accelerating validation tasks by 50%, improving system reliability through **test-driven development** (TDD) practices.
- Spearheaded **Git** version control management for a multi-developer team, resolving 30+ complex merge conflicts and ensuring seamless **CI/CD** deployment via **Amazon Web Services**.

Pax8, Greenwood Village, CO | Junior Software Engineer | 05/2022 – 12/2023 | (Spring Boot, Java, Kotlin, AWS)

- Engineered a distributed event-driven architecture utilizing **Kafka** to bolster big data analytics pipelines, resulting in a 40% reduction in data processing latency. Deployed the Kafka clusters on **Kubernetes**.
- Migrated 4 monolithic applications to **Spring Boot** microservices; maintained and documented API endpoints.
- Automated customer billing workflows by designing and deploying **Cron jobs** for scheduled credit memo delivery, reducing manual overhead by 4 hours/week.
- Established a streamlined alert system using **Sumo Logic** dashboard to monitor backend processes, reducing incident response time by 30 minutes per event.

Payne Institute, Golden, CO | Application Developer | 08/2021 – 05/2022 | (React, Google Cloud, Cloudflare)

- Constructed an interactive Gas Flare mapping web application using ArcGIS API, enabling users to visualize and analyze gas flaring data by querying desired features.
- Hosted and managed the application on **Google Cloud** with **Apache** and **Cloudflare**, ensuring 99.9% uptime.

BurstIQ, Denver, CO | Software Engineer Intern | 08/2021 – 12/2021 | (TypeScript, HTML, CSS, Bootstrap)

- Designed and developed a blockchain-based web application to facilitate chemotherapy medication donation.
- Redesigned the on-chain data models and data ownership; connected the user interface to the blockchain database through **REST API** calls, enabling medication inventory management and user registration.

Colorado School of Mines, Golden, CO | Teaching Assistant | 08/2021 – 12/2021 | (Bash, Linux/Unix, Scripting)

- Mentored over 50 students in mastering Linux OS and Bash scripting, facilitating hands-on workshops that led to a significant increase in student proficiency during course evaluations.

Esri, Redlands, CA | Solution Engineer Intern | 05/2021 – 08/2021 | (JavaScript, HTML, CSS, ArcGIS API)

- Developed an interactive hiking web application leveraging Esri's ArcGIS API for geospatial data analysis.
- Transformed the web application into a sales enablement tool, integrated it into the company repository, and empowered teams with customer-facing demo resources, improving engagement and client acquisition.

PROJECTS (more on github.com/dwang917)

AI Chatbot App with audio support (<https://github.com/dwang917/ChatBot-App>):

- Developed a native MacOS AI assistant app using **OpenAI's GPT API**. The app stores and retrieves chat histories and supports audio input for voice-based interactions, enhancing user accessibility.

Clue Game (<https://github.com/dwang917/ClueGame>):

- Led a team of 2 developers and implemented a multi-player board game with a fully functional **GUI** using **Java**, **JUnit**, and **Swing**. The game allows users to initialize gameplay based on different input files.