

# Software Engineer - Xiaoling Cui

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## Profile

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I'm a career switcher with three years of experience in data-driven analytics, now building a career in software engineering. At Holberton School, I developed full-stack applications using Python, JavaScript, and C, with experience in React, Node.js, REST APIs, and Docker.

I thrive in collaborative, agile teams and enjoy creating scalable, user-focused solutions that drive meaningful impact.

## Skills & Competencies

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- **Programming Languages:** Proficient in JavaScript, Python, and C, with experience building full-stack applications and RESTful APIs.
- **Web Development:** Skilled in React, HTML/CSS, responsive design, and API integration; experienced with Jest and React Testing Library.
- **DevOps & Tools:** GitHub, Docker, environment setup, CI/CD workflows.
- **Data & Visualisation:** Skilled in using structured/unstructured data to generate insights.
- **Collaboration & Agile:** Team player with experience in agile sprints, pair programming, and code reviews; value open communication and inclusive teamwork.
- **Problem-Solving & Growth:** Curious, adaptable, and resilient; embrace challenges, apply feedback, and use AI tools to accelerate learning and innovation.

## Work Experience

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### Business Analyst

#### Taiyuan Heavy Machinery Group Co., Ltd.

 08/2016 – 12/2018    TAIYUAN, CHINA

- Collaborated with cross-functional teams and international clients to gather and define business requirements and developed BI solutions using SQL, Excel, and Tableau.
- Extracted and analyzed large-scale datasets to uncover actionable insights and craft clear, compelling narratives for internal stakeholders.
- Conducted customer survey analysis using a mix of analytical techniques to inform both operational improvements and strategic decisions.
- Led the development of manual and automated reporting tools using Excel and Tableau, improving reporting efficiency and accuracy.
- Delivered training sessions to empower end-users to adopt data visualization and self-service analytics tools, fostering a data-informed culture.

## Education

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### Software Engineer Program

#### Holberton School Australia

 02/2025

- Engaged in an intensive, full-time software engineering program, which emphasizes collaborative and hands-on learning experiences.
- Developed real-world applications using Python, C, JavaScript, SQL, and React, enhancing practical coding skills.
- Skilled in Test-Driven Development, CI/CD workflows, and version control with GitHub for efficient, collaborative software delivery.
- Studied Data Structures & Algorithms, including performance analysis, which bolstered problem-solving capabilities.

## Education

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### Bachelor of Arts (German) Northwestern Polytechnical University

📅 09/2011 – 07/2016

- Completed foundational coursework in computer science (Computer Engineering, Visual Basic Programming).
- Awarded University Scholarship for academic excellence (2012, 2013).
- Developed strong adaptability and intercultural communication skills through a one-year study (2014-2015) experience in Germany (Exchange, TU Bergakademie Freiberg).

## Projects

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### Backend Software Engineer AI-Powered Post-Surgery Care Assistant

📅 07/2025 – 07/2025

*Flask-based intelligent assistant for post-surgery care using Python, JavaScript, Flask, HTML, CSS, Docker, Git*

- Developed a full-stack web application integrating Heidi APIs, enabling automated process workflows, real-time data streaming, and interactive Q&A features
- Built file upload and live data processing workflows supporting multiple input types
- Integrated AI-driven responses through REST APIs, delivering structured outputs and dynamic user interactions
- Designed a responsive UI with HTML/JavaScript front-end, featuring drag-and-drop, progress tracking, and interactive cards
- Wrote unit, integration, and end-to-end tests to ensure reliability and scalability
- [View on GitHub]: [https://github.com/xl-c111/heidi\\_AI\\_integration\\_project](https://github.com/xl-c111/heidi_AI_integration_project)

### Full Stack Software Engineer Holbertonschool-HBnB: Full-Stack Web Application

📅 05/2025 – 08/2025

*An Airbnb-style full-stack web application using Python, Flask, SQLAlchemy, MySQL, JavaScript (ES6), HTML, and CSS*

- Developed a RESTful API using Flask and SQLAlchemy, using a modular architecture and ORM-based data handling.
- Built interactive front-end interfaces using HTML/CSS and JavaScript (ES6).
- Designed a MySQL database with normalised schemas and proper relational integrity.
- Documented system architecture with UML/ER diagrams to support team development.
- Applied TDD and Git-based version control in an agile, collaborative workflow.
- [View on GitHub]: <https://github.com/xl-c111/holbertonschool-hbnb>

## Additional Information

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- Languages: English, Mandarin, German.
- Visa: Australian Permanent Resident.
- Location: Based in Melbourne and open to hybrid roles.

## Social Media

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LinkedIn



GitHub



Website