

# Chris Borowski

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## Technical Skills

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Programming Languages and Frameworks: Java, Python, SQL, HTML, CSS, Spring Boot, Django, Bootstrap

Developer Tools: Git, GitHub, GitLab, MySQL Workbench, IntelliJ IDEA, Microsoft VSCode, Jupyter, Terminal

Operating Systems: Linux, MacOS, Windows

## Education

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**Bachelor of Science in Computer Science**, Western Governors University, Salt Lake City, UT    Expected May 2026

*Relevant Software Engineering and Computer Programming Coursework:*

Data Structures and Algorithms, Java Fundamentals and Frameworks, Python Scripting and Programming, Back-End Programming, Software Engineering, Database Management, Web Development, Version Control

## Experience

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**Web Developer**, NAATPI

Feb 2024–Present

- Spearheaded digital transformation by identifying cost-saving opportunities and successfully pitching a user-friendly CMS platform to board, launching website migration that reduced annual operating costs by 87%.

## Projects

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**Wallet One** | *Java fintech virtual credit card management app with scalable algorithms*

[Blog post](#) • [GitHub](#)

- Developed a credit card management system in Java using Object-Oriented Programming (OOP) principles, in-memory data storage, and interactive command-line UI, achieving average card search time of 0.288 ms.
- Optimized the original card search algorithm using HashMaps, achieving  $O(1)$  time complexity, reducing the code length by 55%, enhancing performance by 10x, and cutting average search time by 90% to 0.0284 ms.
- Engineered a scalable, industry-grade card generation algorithm with  $O(1)$  time complexity and enhanced security, supporting the issuance of 44 million unique card numbers with 99% number collision resistance.

**Witter** | *Twitter-like social platform in Django with RESTful API and optimized performance*

[Blog post](#) • [GitHub](#)

- Architected a high-performance full-stack Django web app implementing MVC design, leveraging Python for server-side operations, SQLite data storage, and RESTful API architecture for front-end/back-end integration.
- Engineered a 5-model data architecture integrated with 3+ user states authentication within a RESTful API framework, enabling efficient CRUD operations across user profiles, achieving 14 ms API latency in Postman.
- Implemented responsive UI by combining Bootstrap and jQuery code with asynchronous JavaScript loading, resulting in 0.44s DOM Content Loaded time, 0.8 s LCP score, and 99/100 Lighthouse performance score.

## Tech Talks and Presentations

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**“When Python Speaks Grammar”**, UW Data Science Institute, Madison, WI

Feb 2024

- Presented non-ML NLP tool for lesser-known language with 95% coverage to 50 data science professionals.

## Licenses and Certifications

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- Google IT Support Professional Certificate

Sep 2023

## Volunteer Experience

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**Open-Source Contributor**, Mozilla Common Voice

May 2019

- Conducted analysis of open-source database voice recordings to ensure 99% data accuracy and consistency.