

# Steven Hudson

## Software Engineer

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## Profile Summary

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- Accomplished software engineer with a robust foundation in computer science, proficiency in data structures and algorithms, and a passion for problem-solving
- Experienced in delivering high-quality solutions in agile environments, with a focus on databases and RESTful API development in frameworks like Django and Quarkus
- Strong advocate for code quality, security best practices, test-driven development, and continuous learning

## Technical Skills

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<b>Programming Languages</b>	Python, Java, SQL, Plpgsql, Javascript/TypeScript, C/C++, C#
<b>Frameworks &amp; Libraries</b>	Django, React, Quarkus, Pytest, JUnit
<b>Dev Tools</b>	Git, Jira, VSCode, IntelliJ, Vim, Bash, Slack
<b>Cloud &amp; DevOps</b>	Azure, Docker, Azure EventHubs

## Experience

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### Software Engineer, General Motors - Austin, TX

Jan 2022 - Aug 2025

#### Virtual Power Plant

- Designed and developed electric vehicle charging platform to support managed charging and responsiveness to grid power demand in collaboration with utility partners
- Reduced enrollment latency by over 80% by leveraging Postgres functions and Azure EventHubs
- Drove adoption of unit testing with Pytest by leveraging Copilot to increase code coverage of one microservice from 0% to nearly 90% in a single sprint, later shifting to test-driven development

#### Home Charging Installation

- Improved app reliability by using Java debugger to identify blocking calls in asynchronous Quarkus, changing to non-blocking I/O to eliminate deadlocks
- Increased efficiency of customer support by identifying common failure modes from support tickets and implemented features to enable representatives to resolve issues without escalation

### General Manager, American Multi-Cinema - Auburn, AL

Sep 2015 - Mar 2020

- Improved integration of interactive pre-show pilot by reverse-engineering library management system and added application to remove packages without risk of orphaned assets
- Minimized downtime by troubleshooting digital projection hardware and software
- Opened new market by bringing foreign films to our theatre in collaboration with local student group

## Education

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### B.S. Software Engineering

Arizona State University, Tempe, AZ  
Dean's List: Fall 2020, Spring 2021

May 2021  
3.77/4.00 GPA  
Magna Cum Laude

## Projects

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### Galactic Waez

Oct 2021

- Problem: Empyrion lets players explore a galaxy of tens of thousands of star systems, but does not provide wayfinding. Further, galaxy map is not exposed by the game's modding API.
- Solution: Developed a heuristic to identify galaxy map data within application memory, then used that data to build a graph structure and implemented A\* pathfinding to optimize navigation.

### Performance Scheduler

Jan 2020

- Problem: Scheduling performances is a time-consuming task involving many constraints, and the only company-provided tool was a spreadsheet.
- Solution: Designed and developed a desktop Java application with custom swing components to facilitate scheduling with an intuitive, drag-and-drop interface.