

# AMAAN BILWAR

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## EDUCATION

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### Bachelor of Science in Computer Engineering

University of Cincinnati, Ohio

Aug 2022 - April 2027

Cincinnati, OH

## EXPERIENCE

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### AI Engineer Intern

Story

Sept 2025 - Dec 2025

San Francisco, CA

- **Shipped** an iOS AI video backend in **1 week** for prompt-to-video generation (script, characters, music, render).
- **Built** a custom music agent with JSON-RPC using ACP for scene-aware soundtrack generation.
- **Implemented** multi-agent communication workflows to speed script/character/media generation and reduce time-to-video.

### Software Engineering Intern

Honeywell

Sept 2024 - Dec 2024

Atlanta, GA

- **Built** an log-search platform processing **90TB+** telemetry/day; **cut** error detection time by **70%**.
- **Integrated** semantic search and anomaly triage into cloud microservices with SRE/platform teams.
- **Delivered** the end-to-end stack (Python, LangChain, Azure AI) for low-latency incident search and faster root-cause analysis.

### Software Engineering Intern

Honeywell

Jan 2024 - April 2024

Alpharetta, GA

- **Reduced** customer onboarding time by **64%** by redesigning workflows and backend architecture (Docker, PostgreSQL, Spring Boot).
- **Improved** reliability/fault tolerance via Spring Cloud Azure, RabbitMQ, and Hazelcast, validated with JUnit tests.
- **Modernized** legacy apps through dependency/version alignment and release stabilization to improve maintainability and compatibility.

## PROJECTS

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### the-search-thing | *Rust, Electron, HelixDB*

[GitHub](#)

- **Engineered** a local-first semantic search app across files, images, and videos with **sub-ms** response targets.
- **Architected** an Electron UI with a Rust sidecar over JSON-RPC (NDJSON over stdio) to deliver stable, low-latency app-to-core communication.
- **Implemented** Rust routes for filesystem walking, indexing, and semantic query search, backed by [HelixDB](#) vector + graph storage.

### better-vscode | *Typescript, Electron, Patch files*

[GitHub](#)

- **Developed** and maintain a patch-driven VS Code fork that ships customization without vendoring the upstream source tree.
- **Automated** a reproducible patch workflow (sync/apply/reverse/dry-run) to keep changes rebased against microsoft/vscode.
- **Disabled** default telemetry/experiments and **eliminated** AI chat UI surfaces to prioritize privacy, focus, and lower interface noise.

### openresolve | *Typescript, Bun*

[GitHub](#)

- **Created** an open-source merge conflict resolution agent that proposes unified diffs instead of auto-applying edits.
- **Implemented** conflict tooling for list/context retrieval and reusable Git stage extraction (base/ours/theirs) to power structured **3-way** resolution.
- **Integrated** Tree-sitter foundations with AST-level structural diff + overlap classification to support intent-aware candidate generation and safer merges.