

# Danish Khateeb

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## Skills

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**Programming Languages:** Java (Proficient), Python (Proficient), C++ (Familiar), Javascript/HTML/CSS (Familiar), SQL (Familiar), Bash (Familiar)

**Tools:** Linux, AWS, Git/GitHub, Docker, Shell (Bash/Zsh), VirtualBox, Vim

**Certificates:** AWS Certified Cloud Practitioner, TestOut Linux Pro, TestOut Network Pro

**Methodologies:** Agile/Scrum, DevOps (basic)

## Projects

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### GameBoy Emulator | C++, SDL2

- Developed a cycle-accurate Game Boy emulator in C++ using the SDL2 framework, successfully implementing the Sharp LR35902 CPU architecture, timer logic, and interrupt handling.
- Engineered a comprehensive Picture Processing Unit (PPU) to accurately render background, window, and sprite layers, supporting features like Object Attribute Memory (OAM) DMA, and offering multiple color palettes (e.g., Original, Pocket, Grayscale).
- Implemented the full four-channel Audio Processing Unit (APU) with detailed logic for two Square, one Wave, and one Noise channel, outputting mixed audio at a sample rate of 44100 Hz, alongside support for the MBC1 memory bank controller.

### Discord Web Clone | React, Java, Spring Boot, Tailwind CSS, MySQL

- Developed a real-time messaging platform using Spring Boot and React, implementing RESTful APIs for server management, friend requests, and private messaging.
- Optimized data persistence with MySQL and Spring Data JPA, architecting a relational schema to handle many-to-many user memberships and time-sensitive server invitations.

## Experience

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### Linux

- 2+ years daily driving various Linux distributions - Arch, Mint, Ubuntu; troubleshooting issues, managing packages, creating shell scripts, and maintaining system stability.

## Education

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University of Central Missouri - GPA: 4.0

### Bachelor of Science in Computer Science

Metropolitan Community College (MCCKC) - GPA: 4.0

### Associates Degree: Computer Science and Information Systems

#### Emphasis in: Software Development

Summit Technology Academy (STA) - GPA: 4.0

### Software Development - Java and Python

Islamic School of Greater Kansas City (High School) - GPA: 3.88

### High School Diploma with Advanced Coursework

**Awards:** Student of the Quarter 2x (ISCGKC), Dean's List all years

**ACT:** 33

