

**Name:** James Wilson

**Contact:** 444-222-3333 | Boston, MA

**Summary:**

Experienced Backend Engineer with 3+ years of expertise in C programming, systems programming, and building high-performance, low-latency backend services. Skilled in memory management, multithreading, and integrating with databases and networking protocols.

**Education:**

- Bachelor of Science, Computer Science, Boston University, 2020

**Skills:**

- Programming: C, C++, Shell Scripting
- Frameworks/Libraries: POSIX Threads (pthreads), libevent, gRPC
- Databases: MySQL, PostgreSQL
- Tools: Git, Valgrind, GDB, Make, Docker
- Other: Network Programming, Systems Design, Performance Optimization

**Experience:**

1. **Backend Engineer, CoreTech Solutions, Boston, MA** (Jul 2021 - Present)
  - Developed and optimized high-performance backend modules in C for real-time data processing systems.
  - Implemented multithreaded applications using POSIX threads to improve throughput and responsiveness.
  - Integrated backend services with MySQL and PostgreSQL databases, optimizing queries for efficiency.
  - Debugged and profiled memory leaks and race conditions using Valgrind and GDB.
2. **Software Engineer Intern, NetWare Systems, Cambridge, MA** (Jun 2020 - Aug 2020)
  - Assisted in building network communication protocols in C for distributed systems.
  - Wrote unit and integration tests to ensure code robustness and reliability.
  - Collaborated with senior engineers on performance tuning and code refactoring.

**Projects:**

- **Real-Time Messaging Server:** Designed and implemented a multithreaded C server handling thousands of concurrent connections with low latency.
- **Custom Memory Allocator:** Developed a custom memory management library to improve allocation efficiency and reduce fragmentation in embedded systems.

**Certifications:**

- Certified C Programmer (CLA - C Programming Language Certified Associate)