Professional Summary

Highly accomplished EN10-level Engineering professional with a strong background in theoretical analysis, complexity analysis, and formal verification. Proven expertise in developing distributed algorithms and leading high-performance computing projects. Skilled in a wide range of technical areas, including machine learning, artificial intelligence, and software development. Adept at driving innovation and collaboration in fast-paced environments.

Professional Experience

Senior Engineering Director - Distributed Systems and AI

Inazuma.co | January 2020 - Present

Engineering Manager - Network Management Software

NexaTech Inc. | June 2018 - December 2019

Key Achievements:

- Successfully led the development of a distributed network management system, resulting in a 30% increase in network efficiency.
- Implemented a novel algorithm for fault detection, reducing downtime by 25%.

Responsibilities:

- Managed a team of 10 engineers, providing technical guidance and mentorship.
- Collaborated with cross-functional teams to ensure seamless product integration.

Senior Research Engineer - Formal Verification

CerebroX Labs | January 2015 - May 2018

Key Achievements:

- Published 5 research papers on formal verification and complexity analysis in top-tier conferences.
- Developed a novel formal verification framework, adopted by multiple industry partners.

Responsibilities:

- Conducted in-depth research in formal verification and complexity analysis.
- Collaborated with academia and industry partners on joint research projects.

Embedded Software Engineer

Pulse Embedded Systems | June 2012 - December 2014

Key Achievements:

- Designed and implemented embedded software for a real-time operating system, resulting in a 20% reduction in power consumption.
- Developed a simulation framework for testing embedded systems, improving testing efficiency by 40%.

Responsibilities:

- Designed, developed, and tested embedded software for various projects.
- Collaborated with the hardware team to ensure seamless software-hardware integration.

Education

Technical Skills

Programming Languages:

- C
- C++
- Java
- Perl
- Matlab

Software Development:

- Software Engineering
- Embedded Software
- Testing

Distributed and Parallel Computing:

- Distributed Systems
- High Performance Computing

Artificial Intelligence and Machine Learning:

- Machine Learning
- Artificial Intelligence

Formal Verification and Modeling:

- Formal Verification
- Mathematical Modeling
- Modeling

Operating Systems and Architecture:

- Operating Systems
- Computer Architecture
- Compilers

Tools and Technologies:

- Simulink
- LaTeX
- XML
- Linux
- Verilog