

XXXXXXXXXXXXXX

xxxxxxxxx@gmail.com | +1 xxx xxx xxxx |City, State | [LinkedIn](#)

SKILLS

PROGRAMMING

• C++ • C# • Java • Matlab • Tcl/Tk
• CUDA

SOFTWARE

OPTIMIZATION

• OpenMP • MPI • CUDA Toolkit
• MKL • LAPACK • BLAS

DATABASES

• Postgres SQL • Ancible • JIRA
• Jenkins • Linux • Make • Git
• Github Actions

FRAMEWORKS

• WPF • Ancible • JIRA • Jenkins
• Make • Git • Github Actions

OPERATING SYSTEMS

• Unix/Linux • Windows

EDUCATION

NEW YORK UNIVERSITY MS IN COMPUTER SCIENCE

December 2018 | New York City,
NY

GPA: 3.71 / 4.0

MSR INSTITUTE OF TECHNOLOGY BE IN COMPUTER SCIENCE

May 2013 | Bengaluru, KA

GPA: 3.92 / 4.0

COURSEWORK

UNDERGRADUATE

Design and Analysis of Algorithms
Advanced Software Engineering
Data structures with C

**Object Oriented Programming
with C++**

Data Communication and Networks
Operating Systems
Database Systems with SQL
System Software
Advanced Computer Architecture
Cryptography and Network Security

GRADUATE

**GPUs: Architecture and
Programming**

Big Data and ML Systems
High-Performance Computing for
Machine Learning

EXPERIENCE

XXXXXX CORPORATION | SOFTWARE ENGINEER

February 2019 – Present | Hillsboro, OR

- Gathered and analyzed the performance profile of Linux kernel for network workload with Single root IO virtualization and **improved network performance by 40%**.
- Developed programs with **C++** to identify and solve memory locality issues with Non-Uniform Memory Access (NUMA).
- Designed and developed a **Docker-based REST API microservice** using **Go** and **C#**, deployed on Intel cloud services, saving approximately **50,000 engineering hours annually** and serving **over 20,000 users**.
- Designed an automated checklist system using **C#** and **Windows Presentation Forms (WPF)** to upgrade Intel's recipe selection engine in production, improving efficiency and **saving approximately 2000 engineering hours annually**.
- Analyzed and optimized database queries, improving retrieval time by **about 90%**.
- Led mission-critical **business continuity plan (BCP)** of expanding applications across multiple data centers on the cloud to ensure system capacity in case of unexpected outages.
- **Promoted to Operations chair** for displaying high vigil and focus in conducting weekly audits of production system health and identifying the root cause of excess workload.

XXXXXXX | SOFTWARE ENGINEER INTERN

May 2019 – August 2019 | Boston, MA

- Optimized performance of Mathworks Simulink by **45%** for image processing applications and presented critical results to senior leadership.
- Designed and developed AUTOSAR library implementation for Matlab using **Test Driven Development (TDD)**.

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | RESEARCH ASSISTANT

October 2014 – July 2016 | Bengaluru, KA

- Achieved a **23%** improvement in the Community Earth System Model (CESM) runtime using asynchronous parallelization execution techniques with Xeon Phi architecture.
- Analyzed about 100,000 lines of code and achieved an **8x factor** reduction in data transfer time between the CPU host and Xeon Phi accelerator.
- **Discovered the inefficient** implementation of the WHERE loop construct in Intel FORTRAN compilers.

PUBLICATIONS

CONFERENCES

"QQQ QQQ QQQ QQQ QQQ QQQ QQQ QQQ QQQ QQQQ QQQQ." In the proceedings of the International Conference on Anonymous Conference for Privacy (ACP). December 2016, City, State (link to publication).

AWARDS

2022 Department Recognition Award for Real-time CE Data Edit transfer to drive efficiency and improve quality.