Hi Ahead Computing Team,

I'm Varun Subramaniam, a graduate student in Computer Engineering at NC State, and Im writing to express my strong interest in the CPU Performance Architect position at Ahead Computing.

My background in computer architecture and performance modeling, combined with hands-on experience building cycle-accurate C++ simulators for RISC-V pipelines and analyzing IPC scaling across superscalar configurations, makes me genuinely excited about the work your team is doing. I admire Aheads mission to push CPU performance boundaries, and Id love to be part of it.

Ive attached my resume for your review. Please let me know if there's any additional information I can provide.

TL;DR:

M.S. student at NC State with a focus in computer architecture

Built a C++ cycle-accurate RISC-V simulator, modeled OOO pipeline features, and analyzed performance bottlenecks

Passionate about performance modeling and CPU design excited to contribute at Ahead Computing!

--

Varun Subramaniam

Student ID: 200532434

Department of Electrical and Computer Engineering

North Carolina State University, Raleigh, NC 27606

LinkedIn URL:

https://www.linkedin.com/in/varun-subramaniam