
Professional Summary

Data Analyst. Broad analytical skills to show the big picture view of chaotic data. Student of Data Science courses, papers, and new techniques. Developer in R, both solution-specific scripting and implementation of apps and packages.

Performance Analyst. Analysis and troubleshooting of performance problems. Delivered industry-leading benchmark results on systems ranging from mainframe-class down to smartphones. Effective investigation of bottlenecks at hardware-level, inside OS kernels, through databases and middleware stacks, over networks and across application codes. Skilled at developing metrics and visualizations that characterize and communicate the underlying performance behavior.

- Delivered new-product benchmark results to support 10 years of keynote presentations at the Consumer Electronics Show (CES). Similar track record backed other external and company-wide marketing events.
- Regularly supplied data and analyses for many years of quarterly competitive product reports considered “every time reads” by company executives and senior R&D management.

Benchmark and Tool Development. Extensive experience developing a wide variety of new standardized benchmarks for multiple generations of computing products. Skilled across many classes of performance challenges from multi-tier server architectures, over to server appliances, across personal computers, and down to smartphones. Understands existing processes and crafts tools that robustly fill the necessary gaps with sustainable solutions.

- Elected chairperson of multiple industry-wide standards committees in SPEC and BAPCo, developed and released leading standardized benchmarks in their respective \$50 and \$100 billion marketplaces.

Career Progression & Notable Contributions**Student | 2016 –**

- Studying data-science tools and environments (e.g. R, Tableau, JMP) and languages (e.g. Scala, Python Pandas).
- Recent certifications earned include: Machine Learning by Andrew Ng of Stanford, Statistical Learning by Hastie and Tibshirani of Stanford, and Data Science Specialization by Caffo, Leek, and Peng of John Hopkins University.

Intel Corporation | 2003 – 2015**SENIOR PERFORMANCE ANALYST** (Smartphones: 2011-2015)

- Led a team of 6 to 9 engineers and technicians whose work is delivered to company executives, across R&D group managers, and to all parts of the field sales teams; measure and analyze ~100 devices/year.
 - Started this team as a single engineer building a new lab out of unused basement space. Within 2 years earned the company’s commitment to concentrate all related measurement and analyses in our team.
 - Developed internal tools (e.g. trace processing, storage, and visualizations) now replicated in labs in different divisions across the company.
- Developed new benchmarks and lead cross-industry benchmark standards committees.
 - Initiated development at SPEC (Standard Performance Evaluation Corporation, spec.org) and EEMBC (Embedded Microcontroller Benchmark Consortium, eembc.org) to add smartphone benchmarks to their product lines; AndEBench has since become one of EEMBC's marquee products.

Prior Growth at Intel Corporation:**Senior Performance Engineer** (Laptop PCs: 2003-2010)

- Analysis: Delivered industry-leading benchmark results for each generation of Intel's mobile processors.
- Development: Chaired MobileMark Committee at BAPCo (2003-2006).

Career Progression & Notable Contributions, Continued

Hewlett-Packard Company | 1987 - 2002

SENIOR PERFORMANCE ENGINEER (1996-2002)

- Analyzed and tuned performance of HP server products (proprietary and commodity servers and software).
- Lead representative to SPEC standards committees, developed and released industry-changing benchmarks.
- Crafted tools and methodologies that were used across performance teams to drive performance measurements and analyze results.
- Performance architect for HP adaptive data center solutions.

Notable Contributions:

- Delivered world-leading TPC and SPEC benchmark results across 10+ generations of HP Server products (HP 3000 Mini Computers, HP PA-RISC Unix Servers, and HP NetServers). Consulted with internal and 3rd party (Oracle SQL, MS SQL, Informix) developer teams to remove performance issues that were uncovered by our ability to take systems beyond the reach of other teams.
- Founding Chairperson for SPECweb committee. Established new category of standardized web-server benchmarks that proved to be one of SPEC's most published benchmarks.

Prior Growth at Hewlett-Packard Company:

Manager: Managed performance team developing and analyzing “dot-com” solutions

Performance Engineer: Performance analysis in Unix Kernel Development team - SPEC Representative

Performance Engineer: Benchmarking on HP/UX and HP MPE/XL Systems - SPEC and TPC Representative

Software Engineer: Supported and enhanced low-level internals for HP's SQL database products

Professional Development

Education:

Masters of Science, Computer Science | University of Vermont

Bachelors of Science, Computer Science | University of Vermont

Bachelors of Arts, English | University of Vermont

Volunteer Activities:

SPEC Editor (Standard Performance Evaluation Corporation): Board-appointed officer for many years responsible for external publications (e.g. www.SPEC.org), as well as ensuring internal tools/services (wikis, email, source control, archives, et al) scale to satisfy the needs of member companies and universities worldwide.

Director and Coach for Youth Soccer: Director for Pacific Coast Spring Soccer League, Coach-Director for Cupertino FC competitive soccer club, board member for both Area 2J and Region 35 of AYSO; working with dozens of teams over the last decade (competitive clubs, school teams, and recreational) up through the U19 age division; AYSO and USSF certified coach.

Educational Electronics: Helping young engineers find their connection to technology utilizing open-source environments with Raspberry Pi, Arduino, and other tools.