

Brent Gingell

♦ Software Engineer

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Summary

Software engineer with a strong interest in heterogeneous computing, parallel processing, graphics, and networking. Experience in low latency and high performance networking, network protocols, optimization, and data encryption and security.

Technical Skills

C and C++

TCP/IP etc.

System programming

Python

Linux

Performance Profiling

Education

University of California, Santa Cruz

Capstone Project: Visualizing Smoothed Particle Hydrodynamics

BS Computer Science with Honors

Notable Coursework: Operating Systems, Distributed Systems, Computer Security, Computer Graphics, Compiler Design

Class of 2019

Work History

Software Engineer – August 2019 – Present

Check Point Software Technologies Ltd.

- Implementation and maintenance of proprietary network stack in user and kernel space with particular attention to nanosecond latencies and high performance using DPDK.
- Profiled and improved vital performance metrics leading directly to marketable results.
- Wide breadth of experience with networking protocols and infrastructure.
- Integrated hardware accelerators, SmartNICs, and chipset features to achieve state of the art performance results.
- Early trial user for corporate AI integration, familiar with agent, skill, MCP creation

Software Verification Intern – June 2018 – September 2018

Xilinx – San Jose, CA

- Created a flexible framework to automate common debugging tasks and optimized performance by using distributed and parallel processing.
- Utilized knowledge of Python, C/C++, Tcl, Linux, FPGAs, Computer Architecture.

Computer Science Tutor – April, 2018 - Dec 2018

University of California, Santa Cruz– Santa Cruz, CA

- The interactive instruction of Computer Science, especially related to data structures, abstract data types, and run-time analysis.

Programming Instructor – Summer 2016, Summer 2017

iD Tech Camps– Stanford, CA

- In-depth technical instruction to kids and teens to introductory programming, design, and other technical concepts. Explored concepts in Python, AI design, and microcontrollers.

Linkedin: www.linkedin.com/in/brent-gingell

Github: <https://github.com/bgingell>