

Shane K. Panter

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<https://shanepanter.com>

Education



Ph.D in Computing (ABD)

Boise State University

Spring 2026

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M.S. in Computer Science

Boise State University

Spring 2013

Academic Appointments



Clinical Assistant Professor

Boise State University

August 2023 – Present

Lecturer III

Boise State University

August 2021 – August 2023

Lecturer II

Boise State University

August 2013 – August 2021

Research Assistant

Boise State University

March 2009 – May 2011

Industry Experience



Foundation Code

Senior Software Engineer

Boise, Idaho

September 2012 – Present

- Managed a team of up to 5 engineers
- Primary architect for custom software solutions in the manufacturing domain
- Responsible for meeting deadlines on concurrently scheduled contracts



Hewlett Packard

System Firmware Engineer III

Boise, Idaho

May 2011 – September 2012

- Developed firmware for Enterprise Laser printers
- Responsible for the maintenance and development of the Energy Star[®] framework components
- Supported marketing and sales to bring critical features and bug fixes to large enterprise accounts
- Designed, developed, tested, and integrated core framework services



Western Trailers

Software Developer / Information Technology

Boise, Idaho

June 2005 – May 2011

- Identified data patterns and trends, designed data mapping requirements
- Researched and resolved problems and inconsistencies within SQL Server databases
- Developed custom applications in .NET to connect AutoCAD and Design Review with Visual Manufacturing
- Lean Knowledge certified by the Society of Manufacturing Engineers Certificate No. 112833
- Designed a solution to facilitate the routing of parts through a 100,000 square foot manufacturing facility

Publications

- [1] S. K. Panter and N. U. Eisty, *Rusty linux: Advances in rust for linux kernel development*, 2024. arXiv: 2407.18431 [cs.SE]. [Online]. Available: <https://arxiv.org/abs/2407.18431>.
- [2] A. Joshi, M. Schmidt, **S. Panter**, and A. Jain, "Evaluating the benefits of team-based learning in a systems programming class," in *2020 IEEE Frontiers in Education Conference (FIE)*, IEEE, 2020, pp. 1–7. DOI: 10.1109/FIE44824.2020.9274183.

Grants

- NSA, "GenCyber 2024 Summer Camp at Boise State University for Secondary Teachers," PI: Jyh-haw Yeh (Program Director), Co-PIs: Doug Twitchell, Shane Panter and Edward Vasko, 7/24/2023 - 7/24/2025, \$150K. **Funded**
- National Renewable Energy Laboratory, "Running Like the Wind: Boise State Broncos CWC20" PI: Lynn Catlin, Co-PI: Shane Panter, 8/1/2019 - 8/1/2020, \$20K Not Funded
- Mozilla, "Mozilla Responsible CS Challenge" PI: Donald Winiecki, Co-PIs: Amit Jain, Shane Panter, 8/1/2019 - 8/1/2020, \$144,388 Not Funded
- Idaho Department of Commerce, "Predictable Ryde" PI: Bogdan Dit, Co-PI: Shane Panter, 5/14/2018 - 8/13/2019, \$131,995.20 Not Funded

Teaching

- CS117 C++ for Engineers - Course coordinator (Fall 2015 - Present)
- CS119 Introduction to Java
- CS121 Introduction to Computer Science I
- CS155 Introduction to Version Control - Course coordinator (Spring 2018 - Present)
- CS208 Introduction to Full Stack Web Development - Course coordinator (Spring 2023 - Present)
- CS221 Introduction to Computer Science II
- CS253 Introduction to Systems Programming - Course coordinator (Fall 2015 - Spring 2018)
- CS333 Network Security and Defense Course coordinator (Spring 2023 - Present)
- CS354 Programming Languages
- CS408 Full Stack Web Development - Course coordinator (Spring 2020 - Present)
- CS452 Operating Systems - Course coordinator (Fall 2019 - Present)
- CS471 Software Engineering
- CS481 Senior Design - Course coordinator (Spring 2018 - Spring 2021)

- CS516 Introduction to Web Development - Course coordinator (Spring 2020 - Fall 2023)
- CS552 Operating Systems - Course coordinator (Fall 2019 - Present)

Service

Internal - Boise State University

- Spring 2023 - Present Idaho Cyber Range liaison for Boise State University
- Spring 2023 - Present Computer Science Department Outreach Committee member
- Spring 2017 - Spring 2023 Computer Science Department Curriculum Committee member
- Spring 2019 - Spring 2021 Industry liaison for CS481 - senior design
- Spring 2019 - Spring 2021 Committee Member University Foundations Finishing Foundations courses
- Spring 2019 - Spring 2021 Committee member COEN Senior design committee
- Spring 2017 - Spring 2018 Interim Chair of the Computer Science Department Curriculum Committee
- Spring 2016 Chair of the EN-0020-15 Lecturer search committee

External - Volunteer

- Spring 2017 - Present Business Professionals of America (BPA) Judge
- Fall 2019 - Fall 2021 IHSAA speech and debate Judge
- Fall 2015 - Spring 2016 Lowell Scott CS Club instructor

External - Review

- ESEM 2024 conference - Sub-reviewer for conference technical papers track