Shane K. Panter

shanepanter@boisestate.edu
https://shanepanter.com

Education

Ph.D in Computing (ABD)
Boise State University
Spring 2026
est.

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,"
     in *2024 ESEM Emerging Results, Vision and Reflection Papers Track*, ACM, 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