Bryce Michael Hill

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Education

Purdue University, West Lafayette IN   **August 2022 – December 2025**
Bachelor of Science Computer Science   *GPA: 3.98/4*

Concentrations: Programming Languages, Systems Programming

Undergraduate Coursework: Analysis of Algorithms, Data Structures, Operating Systems, Networking, Software Testing, Systems Programming, Computer Architecture, Object Oriented Programming, Linear Algebra, Calculus I-III, Discrete Mathematics, Statistics

Graduate Coursework: Distributed Systems, Compilers, Database Systems

Honors: Dean's List and Semester Honors

Experience

Epic Systems   **May 2025 – August 2025**
Software Engineer Intern   *Madison, WI*

- Developed software utilizing C#, Typescript, React, and SCSS
- Designed and developed insurance summary workflow in MyChart to improve user experience and increase transparency of health procedure expenses
- Facilitated a focus group among MyChart users to ensure workflow usability

Cleveland-Cliffs   **May 2024 – August 2024**
Software Engineer Intern   *Burns Harbor, IN*

- Developed software utilizing C#, Python, SQL Server, Bootstrap CSS, Grafana, and ASP.NET Core
- Built system tracking software to inventory over 4,000 assets, allowing engineers to track storage and memory usage, network connections, patch compliance, and changes to active directory
- Piloted Verve cybersecurity software on 250 manufacturing assets to track vulnerabilities, deploy patches, and create dashboards

Purdue University   **August 2023 – May 2024**
Undergraduate Teaching Assistant for C Programming and Discrete Math   *West Lafayette, IN*

- Facilitated labs and office hours for a class with over 800 students
- Proofread homework assignments before being given to students
- Graded student homework assignments and exams

Projects

Wire Shark Clone | *C*   **October – December 2024**

- Developed terminal based clone of wireshark supporting the parsing of PCAP files from tcpdump
- Added support to parse ethernet, IP, TCP, UDP, ICMP, and ARP headers as well as packet contents

UNIX Shell | *Lex/Yacc, C++*   **March – April 2024**

- Developed clone of csh
- Designed shell grammar and implemented it using Lex/Yacc
- Included pipes, file redirection, subshells, and control flow

Chip-8 Emulator | *C#, .NET*   **May 2023**

- Translated opcodes and handled keyboard input and video output to gain experience with basic emulator development
- Processed data from raw big-endian binary files
- Utilized Winforms UI for graphics

Technical Skills

Languages: C/C++, SQL, Typescript, C#, Java, JavaScript, HTML, CSS, Python
Frameworks & Libraries: React, ASP.NET Core, SQL Server, ExpressJS, SQLite, Bootstrap, TensorFlow
Software & Tools: Linux, Git, Github, Excel, Grafana