

Ian Whitfield

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About Me

Systems programmer obsessed with pragmatic problem solving. High proficiency in C, Python and Linux, with a huge appetite for learning and an affinity for adaptation. A history of rising to meet challenges without preexisting experience or mentorship.

Experience

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- 2020-23** **University of Pittsburgh Grad:** Computer Science Major + Music Minor (3.8 GPA).
- Individual senior project implementing and documenting a new process scheduling algorithm in the Linux kernel over one semester
 - Team lead for lag compensated networking in *Game Design and Implementation* in Rust, the only team in the class with working multiplayer
 - Received an A grade in electives: *Intro to Compiler Design*, *Intro to Computer Architecture*, *Intro to Computer Graphics*, *Software Quality Assurance*, *Applied Cryptography and Network Security*, *Programming Mobile Robot Platforms*
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- 2022-23** Professional audio for The Panda Studios and 8Trak Entertainment (600 hours total). Copywriting for Purafied Audio (100 hours).
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- 2021** IT Intern at Renewable Energy Test Center. Various **solo** projects, including
- A custom guest sign-in kiosk system with QR code badges using Django
 - ESP32 sensor programming and data collection/display with Node-RED, plus PCB design for the sensor system
 - 3D CAD and 3D printing for several parts used in PV module testing
 - Aluminum laser engraving
 - Several linux configuration tasks on Raspberry Pi computers
- (500 hours).
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- 2019** Principal programmer for a study at Santa Clara University. Data parsing and participant experience implementation in Python and Javascript (100 hours).
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- Other:** Self-taught programmer at age 10, ambitious, curious, and motivated.
Eagle scout, camp counselor, de facto team leader.
Grocery store worker, farmer's market vendor, mower of lawns.
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Thank you for the opportunity, I look forward to hearing from you!