Brandon Sakai

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Computer Science
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Objective

Seeking opportunities to work in a team or individually in computer science or cybersecurity to solve real world problems and gain hands on experience

Education

- Rensselaer Polytechnic Institute (2018-2022) - B.S. in Compsuter Science (3.76 GPA)
  - Data structures (Fall 2018)
  - IT and Society, Introduction to Logic, Foundations of Computer Science, Computer Organization (Spring 2019)
  - Introduction to Algorithms, Principles of Software (Fall 2019)
  - Parallel Programming, Database Systems (Spring 2020)
  - Rensselaer Center for Open Source (Fall 2019, Spring 2020)
  - Operating Systems, Network Security I, Application Programming using Java (Summer 2020)
  - Network Programming, Networking in the Linux Kernel, Programming Languages, Modern Binary Exploitation (Fall 2020)

Skills

- Programming languages
  - Strong (> 5k lines of code): C, C++, Java, JavaScript, PHP
  - Intermediate (1k-5k lines): Bash, Python, HTML
  - Beginner (< 1k lines): Batch, CSS, Visual Basic Advanced, Go, SQL
- Strong familiarity with Linux systems, especially Ubuntu, primary system is Gentoo Linux

Projects

- Built, documented, and maintained a 20-Pi computing cluster using MPI complete with necessary tools and associated physical and digital networking infrastructure
- Used IFTTT and a web interface built with PHP and bash to remotely control my garage door
- Installed and configured Gentoo on a flashdrive, using OpenRC, X, and i3wm
- Backend developer, postmaster, and database administrator for RCOS Automatic Door Control Project using Angular, Node.JS, PHP, SQL, and the Ubuntu LAMP stack and Postfix/Dovecot email stack
- Implemented a custom SSH-like secure networking protocol with a partner
- Wrote a browser extension and associated utilities using Javascript, C, and DBus to control audio playback and synchronize volume with Bluetooth headphones (on GitHub)

Job History

- Database and Web Developer - Public Management Group (Summer 2015, 2016, 2018)
  - Used SQL, PHP, Javascript, HTML, and CSS to create a database and associated web interface to track compensation rates for public employees across multiple jurisdictions
- Summer Camp Counselor (Den Chief) - BSA Camp Tamarancho (Summer 2017, 2018, 2019)
  - Collaborated with a team of other counselors to teach campers skills like archery, BB gun shooting, leatherworking, and team building while ensuring they were safe and had fun

Other Activities

- Earned my Eagle Scout in summer 2018 with Troop 24 in the Marin Council
- Earned my NYS EMT certification during my first semester of college with RPI Ambulance
- Joined the RPI Security infosec club and participated in the Fairgame CTF