Joshua Chen

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Education

about.thejsh.xyz

University of Illinois at Urbana Champaign
B.S. Physics, Minor in Computer Science
Graduating May 2018

- Data structures, OOP
- System programming
- AI, Machine learning
- Computer architecture
- Wireless networking

- Computer security
- Unity 2D with C#
- 2 semesters of Java peer tutoring
- HackIllinois volunteer (2015/2018)
- HackIllinois hacker (2016, awarded)

Projects

projects.thejsh.xyz

Discord chatbot

- Multi-role plugin-based chatbot serving over 4500 Discord servers, written in Python
- Built with the discord.py wrapper, backed by a PostgreSQL database and deployed via Docker with Compose
- Core designed with a custom persistence model, command parser, plugin loader, backup system, and more
- 10+ plugins ranging from a rich music player to Wolfram|Alpha integration to a language translator
- Several plugins built to be integrated with web apps using webhooks

Smaller projects

- Android app designed to help reduce eye strain by reminding the user to take breaks every 20 minutes
- Coin flipping Pebble watch app with comprehensive features and custom visuals, written in C
- FFmpeg and youtube-dl GUI wrapper to download videos and convert them to audio, written in C#.NET
- Personal website, built with Angular 4 and hosted with GitHub Pages, using SSL provided by CloudFlare

Skills and Technologies

- Strong written and verbal communication skills (native English speaker)
- Experienced with both Windows (8+ years) and Linux (4+ years) systems

- Python, C (family), Java, CSS, JS/TS, HTML
- Visual Studio, Eclipse, Vim, gedit, Notepad++

- Subversion, Git, Docker, PostgreSQL
- PTC Creo, MS Office, Inkscape, GIMP