

John McKernan

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PROFILE

Savvy software developer with extensive knowledge and a talent for quickly mastering new technology.

EDUCATION

Purdue University (Expected May 2021) – West Lafayette, IN

- B.S. in Computer Science, Minors in Forensic Science & Information Technology – GPA: 3.79
 - Purdue Presidential Scholarship – 2017 to present
 - Relevant Coursework: Systems Programming, Systems Development, Software Engineering, Data Structures and Algorithms, Computer Architecture, C Programming, Cyber Forensics
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LEADERSHIP

- CEO & Co-Founder of Symboxtra Software – Spring 2017 to present – partnership responsible for creating, supporting, and contributing to open-source projects
 - Teaching Assistant for Programming with Multimedia Objects in Python – Spring 2018
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SKILLS

C++, C# .NET, C, JavaScript, SQL, Git, Bash, Jenkins, PHP, SVN, PowerShell, Python, Java, Angular

EXPERIENCE

Software Intern, Automated Test Engineering - Shure Inc., Niles, IL – May to August 2018

- Worked with test engineers to maintain and improve software and systems that validate every manufactured unit as it comes off the line
- Developed and supported mission-critical systems and tools for 10 global plants
- Learned new languages and technologies on-the-job doing full-stack work

Audio Technician, Shows Department - Six Flags Great America, Gurnee, IL – April to August 2017

- Repaired, troubleshooted, and operated large-scale audio-visual systems
 - Responsible for the setup and mixing of 6 daily live performances for more than 1,000 people
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PROJECTS

SplitSound – Active Development – C++, CMake, QML (Qt), Java, Swift

- Pioneered audio sharing software for turning any smartphone into a wireless speaker or headphone receiver; permits sharing of audio from any networked computer to other devices
- Built cross-platform, internationalized desktop and mobile applications with a team of friends

VRoadtrip – Hello World Hackathon 2017 Best Web Dev Application – JavaScript, HTML, CSS

- Led a team of three to develop a service that uses a Google Maps driving route to create a time-lapse of Street View images along its path—a virtual road trip
- Used the Google Maps and Google Street View APIs to create the route, show location progress, and request each frame

CreateSED – Visual Basic (VBA)

- Collaborated with a research team to design a macro for creating Spectral Energy Distribution plots on the Caltech/NITARP project "An Infrared Search for Young Stellar Objects in IC 1396"
- Automated manipulation of raw data sets, creation of plots, and distinction of trends