

Austin Patterson

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(612) 442-6627

Senior software engineering student excited to work with IoT, SaaS, and full stack development. Passionate about intersection of people and tech. 8+ years diverse experience. Working 25+ hrs./wk. with full academic schedule.

B.S. SOFTWARE ENGINEERING

MILWAUKEE SCHOOL OF ENGINEERING

GPA: 2.5 | Mathematics Minor

Expected Graduation – MAY 2023

SKILLS: JavaScript, TypeScript, HTML, CSS, Angular, React, Phoenix, Java, C, C++, C#, Python, Figma, Elixir, JUnit, TestNG, ExUnit, GraphQL, MongoDB, MySQL, Make, Docker, WSL, Git, TFS, Azure DevOps

INTERN EXPERIENCE

Senior Technical Intern | Web Refresh for HMI Dashboard | Leonardo DRS

MAY – NOV. 2020

DRS had a legacy web app, with no frameworks, for the Human Machine Interfaces (HMI) on their power electronics monitoring (PMS) equipment that was difficult to adapt for each new NAVY program. I investigated modern technology candidates for their stack with a focus on improving modifiability, maintainability, and overall user experience. My effort on the project was comprised of two parts:

Limited Access Kiosk OS Image for HMI

MAY – JULY 2020

- Manipulated Ubuntu system files to completely limit OS usability to a Single Page WebApp
- Established a secret, secure maintenance account accessible via hardware connection or remote SSH
- Optimized the production process by delivering a customized OS with detailed installation documentation to the HMI hardware vendor for each new unit to be pre-imaged before arriving onsite

Frontend Web Technology Refresh

JULY – NOV. 2020

- Researched leading frontend JS frameworks with tech spikes, evaluated them against weighted requirements, and presented analysis and a recommendation to stakeholders
- Iteratively developed semi-functional prototypes to exemplify potential extensions
- Drafted visual mockups to demonstrate diverse design solutions
- Hosted review and retrospective meetings to clarify vision and requirements

PROJECT EXPERIENCE

Product Owner Proxy | Upcycling Network | MSOE + LearnDeepMKE

SEP. 2021 – 2023

Businesses often have leftover tools or material they do not need, and school tech classes, clubs, and community makerspaces need extra material. This project will provide a network to allow organizations to track, discuss, and arrange exchange of material, tools, files, time, and knowledge among each other.

- Practiced Agile SCRUM process to define and complete project goals in sustainable sprints
- Forked core elements from a developing, open source, federated social networking app
- Facilitated international meetings with Product Owners and sister developers
- Lead direction of design and functionality when Product Owners were unavailable
- Presented progress to colleagues, professors, and other Product Owners each trimester
- Employed Continuous Integration via Docker in GitLab to automate building and testing

WORK EXPERIENCE

- Professional Driver – Uber, DoorDash
- Museum Associate – Grohmann Museum
- Carryout Specialist – Mad Rooster Café
- Server, Host, Busser, Trainer – Olive Garden
- Event Specialist – Journey Studios
- Warehouse Manager, Carpenter, Driver – JK Cabinets Plus

MAY 2021 - PRESENT
OCT. 2018 – MAR. 2022
DEC. 2020 – MAY 2021
NOV. 2016 – OCT. 2019
JUN. 2013 – MAY 2018
JUN. 2017 – SEP. 2017

CO-CURRICULAR INVOLVEMENT

- Mountain Bike Club – Founding Officer | 1 yr.
- Book Club – Founding President | 1 yr.
- Competitive Programming – Member | 2 yrs.
- Society of Software Engineers – Member | 4 yrs.