

NICHOLAS FLANDERS

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TECHNICAL STRENGTHS

Languages	JavaScript & Typescript, C#, Python, Java, C, SQL
Frameworks	Angular, ASP .NET Core, Node, Express, Android
Tools	Azure, Linux, Git, MySQL, MondoDB, AWS, Altium, MSP430, Raspberry Pi, Arduino

EXPERIENCE

Software Developer

May 2018 – Present

Ethos Group, Irving TX

- Build and document highly reusable, Angular web components utilized throughout internal development teams while working cooperatively with UI/UX designers to help create a consistent brand experience
- Design and implement a scalable job queue system utilizing Azure Blob Storage, Azure Functions, and a service-oriented architecture to handle a variety of job types including automatic contract processing
- Lead and mentored a team of 4 interns to help acclimate them to our tech stack, development cycle, and company culture by distributing work items, providing code reviews, and maintaining project organization
- Develop full-stack web application software using an Angular & ASP .Net Core tech stack for handling accounting and finances to provide realtime updates to hundreds of automotive dealerships around the country

Software Developer

Dec 2016 – May 2018

Software Inventions, Atascadero CA

- Developed Angular front-end for a startup providing a learning management system used by professors in multiple different universities to manage their courses, materials, and assignments
- Created interactive transcript component which allowed syncing to video and audio lectures as well as integrated with YouTube APIs for video scrubbing
- Interacted with RESTful interface to a Java backend, connected with Hibernate ORM to a MySQL database

Solar Car Electrical Team Lead

Aug 2014 – May 2018

Principia Solar Car, Elsah IL

- Developed, documented, and maintained Python telemetry program which communicated over UDP to gather critical data from the solar car and displayed the information in a Tkinter GUI
- Programmed AVR microcontrollers using Arduino C and designed printed circuit boards to create an adaptive cruise control system which optimizes for energy efficiency
- Designed control electronics for Nickel Metal Hydride and Lithium-ion battery monitoring systems
- Lead the Electrical & Drivers teams for the solar-powered car, RaX, in week-long races including the American Solar Challenge & World Solar Challenge, and won "Best Electrical Design" Award at the 2017 Formula Sun Grand Prix

Computer Science Teaching Assistant

Jan 2016 – May 2018

Principia College Computer Science Dept, Elsah IL

- Mentored students in many courses including Object Oriented Programming, Web Development, and Data Structures

MasterCard Hackathon Winner

Oct 2015

MasterCard Masters Of Code Hackathon, St Louis MO & San Francisco CA

- Won the MasterCard St Louis Regional Hackathon by developing a mobile-first Ruby on Rails web app which focused on creating a curated fan experience with integrations to social media, commerce, and events
- Competed in San Francisco at the Grand Finale Hackathon against 11 other teams from 10 different countries where I collaborated with my team to build an IoT smart home unifying remote app

EDUCATION

B.S. Computer Science ◇ 3.9/4.0 ◇ Principia College *St Louis, MO*

May 2018

AWARDS & ACTIVITIES

Dean's List - 4.0 GPA Scholar

Aug 2016 – Jan 2018

Eagle Scout

Aug 2008 – Aug 2014