

# ZACHARY TOBIAS DERUITER

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## EDUCATION

	<b>BS, Computer Science: Software Engineering</b> <a href="#">Purdue University</a> GPA   3.5 / 4.0	01/2021 - 12/2024 West Lafayette, IN
	<b>BS, Robotics Engineering Technology</b> <a href="#">Purdue University</a> GPA   3.5 / 4.0	07/2020 - 12/2024 West Lafayette, IN
	<b>Semester Abroad</b> <a href="#">University of New South Wales</a> GPA   3.4 / 4.0	01/2023 - 05/2023 Sydney, Australia

## EXPERIENCE

<b>Full Stack Developer</b> <a href="#">Self Employed</a>	02/2025 - Present Remote, USA
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As a contractor, my focus is developing Full Stack websites for small businesses that include portfolios, request forms, and an admin page to manage product.

- Develop frontend (React.js), backend (Node.js) and admin page (React.js) to upload, update, delete, and display business portfolios, products, and events
- Manage storage of product data and assets with effective utilization of databases (MongoDB, Cloudinary)
- Implement website customization, newsletter, service request forms, automatic emails

<b>Computer Science Instructor</b> <a href="#">Coding Mind Academy</a>	07/2024 - Present West Lafayette, IN
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Coding Mind Academy is a coding institution which uses project-based learning to guide students in undertaking practical projects.

- Prepare curriculum for 1-3 middle to high school students both online and in person
- Instruct 2-5 classes weekly covering beginner to intermediate levels
- Teach courses in C++, Python, and Python: Pygame

<b>Computer Science Intern</b> <a href="#">The Rush Market</a>	05/2022 - 08/2022 Omaha, NE
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The Rush Market sources online furniture returns for sustainable resale in its online marketplace.

- Prototyped a web app on Heroku with Azure speech-to-text for improving inspection processes at Rush Market
- Created a back-end system using Twilio to alert employees of customer pick-ups via text messages
- Researched and contributed to the initial stages of developing computer vision for automating cycle counting and auditing

## ACTIVITIES

<b>Fluid Power Club (FPC)</b> Purdue University	08/2023 - 05/2024
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FPC designs and manufactures a bike to compete in the NFPA Fluid Power Vehicle Challenge each year

- Designed and implemented an electronics system in a team of 4 to monitor and control the FPC bike
- Researched and tested 4+ sensors and 2 controllers while adhering to NFPA standards and requirements

<b>Boiler Robotics Club (BRC)</b> Purdue University	08/2021 - 12/2023
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BRC works to construct a Mars rover to compete in the University Rover Challenge (URC)

- Designed, built, and programmed a robotic arm in a team of 5 to 6 students (for retrieval and servicing in URC)
- Programmed in Python, utilizing ROS (Robot Operating System) for inverse kinematics; SolidWorks used for design



## SKILLS & COURSEWORK






### Skills

Python • Java • JavaScript • TypeScript • C •  
C++ • C# • HTML • CSS • React • Golang •  
Kotlin • Bash • 3D Printing • Android • Autodesk •  
Azure • Computer Vision • Firebase • Heroku •  
Linux • Machine Learning • Raspberry Pi •  
Twilio • Unity • Visual Studio • Node.JS •  
Express • Frontend • Backend • Full Stack •  
Robotic Operating System • TensorFlow • CAD •  
SolidWorks • Autodesk • MS Office • Teamwork •  
Communication • Problem Solving •  
Organization • Time Management •  
Public Speaking • Analysis • Strategic Thinking •  
Presentations

### Coursework

Operating Systems • Software Testing •  
Intro to the Analysis of Algorithms •  
Software Engineering I •  
Systems Programming •  
Data Mining & Machine Learning •  
Computer Architecture • Programming in C •  
Continuous System Analysis and Design •  
Intro to Robot Kinematics •  
Instrumentation and Data Acquisition Design •  
Automated Manufacturing Processes •  
Introduction to Robotics •  
Manufacturing Systems •  
Production Design and Specification

## INTERESTS

-  Muay Thai
-  Climbing
-  Video games
-  Music
-  Dungeons & Dragons