

ZAVIER MILLER

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EXPERIENCE

ResaleAI – Nashville, TN

Intern -> Junior Developer | [Homepage](#)

Mar 2019 – Present

- First project was to create a Vue plugin for celebration particles
- Worked closely with product lead and other developers to fix bugs and build new features
- Built the front-end for a standalone PWA the company released to help stores during the pandemic
- Researched different linear regression models and implemented an elastic net model to predict in-store buy wait times
- Currently working on Typescript compiler for a custom templating language to build receipts using ESC/POS byte codes (as well as an HTML transpiler for in-browser previews)

Homework Hotline – Nashville, TN

Contract Developer | [Detailed overview](#)

Mar 2017 – June 2018

- Led the development of a new online database web app built in Ruby on Rails, with a PostgreSQL database
- Implemented multiple features using WebSockets, a web technology to allow real-time communication
- Automated payroll so administrators could spend more time securing funding and leading the non-profit

EDUCATION

University of Tennessee, Knoxville

May 2024

Bachelor of Science, Computer Science; Cumulative GPA: 3.6/4.0

PROJECTS & AWARDS

Congressional App Challenge Winner

[Demo](#)

2019

- Developed a PWA using Rails for our school to manage its daily “clubs”, which featured an attendance system for administrators, and a way to see what clubs your friends were signed up for

Hack4Impact

Dev Lead | [Github Org](#)

Aug 2020 – Present

- For our first semester, our club branch built a website for the non-profit Mindversity
- This semester, I am working as a lead developer for the team building an event management system for Keep Knoxville Beautiful. The tech stack is React, MongoDB, and NextJS

Blind Dog Clothing

[Webstore](#)

Oct 2019 – Present

- Founded and led a clothing company using custom-made designs
- Built an eCommerce platform to allow customers to buy our product using Rails and Vue
- Created an admin dashboard to help manage products, shipping, and analytics

ZML

[Github Repo](#)

Dec 2020

- While back home for winter break, I wanted to start to learn some of the matrix algebra involved in basic neural networks
- Built in Go, focus on extensibility and proper programming practices

Zen

[Github Repo](#) | [Demo](#)

Jan 2021 – Present

- My first open-source repository built in Go; CLI tool for students to check that their labs are correct
- Implemented Myers Diffing algorithm for scoring the labs
- Automatic updater, soon to have more features to help TAs grade student labs

TECHNICAL SKILLS

Proficient: Javascript/Typescript, VueJS, React, Node, SQL, MongoDB, PostgreSQL, GraphQL, Ruby on Rails, Ruby, Golang, C/C++, Python, Git, Heroku

Exposure: Java, Objective C, Swift, Docker