

Hannah Burdge

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SOFTWARE ENGINEER

Professional software engineer and graduate of Flatiron School's Software Engineering program. My background is in chemistry with a special focus on structure-based drug design, and I bring that scientific way of thinking to the tech sector. My strengths include teamwork-based communication, creative thinking, and a drive to innovate.

TECHNICAL SKILLS

C# | Ruby/Rails | SQL(SSMS, postgresSQL and sqlite) | Javascript/Typescript | React/Redux | HTML/CSS

TECHNICAL PROJECTS

APSecure5

Secure payment app for B2B use

- C# backend and a private API, in concert with a React frontend and SQL database
- Designed to both accept and generate CSV files for fast and easy payments

DNDesign - [Github](#)

Character creation app for Dungeons and Dragons(5e)

- Utilised a Rails backend and open-source dnd5eapi.com in concert with a React frontend
- User-friendly design for fast, simple character sheet generation
- Use of web sockets for real-time combat technology playing remotely

All Roads Lead Home- [Github](#)

A text-based adventure game with original story, map, and choose-your-own mechanics

- Rich Rails backend (using Sinatra) to store the entirety of the story and options
- Atmospheric front-end made in React (with Bootstrap) using both visuals and sound
- User authentication using Sinatra/Rails for custom experience when logged in

SkiBum - [Github](#)

A guide to ski resorts in Colorado with weather guidance

- React-bootstrap-created user-friendly interface
- Support for forum posting as well as data from WeatherAPI
- Designed for optimal performance using careful design of information fetching

PROFESSIONAL EXPERIENCE

Software Engineer, APTechnology

July 2022-Present

- Perform daily tasks associated with development and upkeep of several payment apps for B2B use
- Worked as a team with several other engineers to generate new and exciting ideas and features
- Daily work on both front- and back-end portions of the app

Founder and Operator, HEB Training

December 2019-Present

- Assist owners of puppies, newly-rescued dogs, and long-time pets with modifying behaviors that negatively impact daily life
- Aid in communication between owner and dog that allows for a life-long increase in quality of life for entire family
- Operated a thriving small business before, during, and after the pandemic

Senior Associate Scientist, Pfizer ORD November 2019-December 2021

- Utilized existing methods in addition to developing new chemistry in order to access biorelevant scaffolds in an analog-friendly manner
- Engaged with a team of biologists, designers, and synthetic chemists to further SBDD based on biological assays, crystal structures, and molecular modelling
- Worked in LCMS method development, NMR analysis and AI retrosynthesis tools to become a well-rounded medicinal chemist

Graduate Researcher, Scripps Research May 2016-August 2016; May 2017-October 2019

- Developed novel photochemical methods, facilitating research for research mentor
- Worked toward the total synthesis of complex, bioactive natural products.

EDUCATION

Flatiron School

New York, NY 12/2021 - 03/2022

Full Stack Web Development, Ruby on Rails and JavaScript program

Scripps Research

La Jolla, CA 05/2017-10/2019

Master of Science (MS), Synthetic chemistry

Towson University

Towson, MD 05/2013 - 05/2017

Bachelor of Science (BS), Chemistry