

Elijah Ballard

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EDUCATION

University of Maryland, College Park, Maryland
Bachelor of Science, Computer Science, Minor in Public Leadership

Graduation: Spring 2024

Relevant courses: Object Oriented Programming I (*Java, Python*), Object Oriented Programming II: Data Structures (*Java*), Introduction to Computer Systems (*C, Emacs*), Discrete Structures, Applied Probability, and Statistics I (Some *R*), Algorithms, Organization of Programming Languages (*Ruby, Python, OCaml, Rust*), Web Application Development (HTML, CSS, JavaScript)

SKILLS

- **Programming Languages:** Java, C, Ruby, MatLab, HTML, CSS, JavaScript, Python

PROGRAMMING EXPERIENCE

Java

- Designed and manipulated a Java class hierarchy to simulate a round of *Texas Hold Em*.
- Managed a media rental program that allowed for the input and output of media to consumers
- Created a virtual bus terminal using a hashing data structure that stored each customer's profile and was linked to a corresponding bus
- Created and facilitated a "Tikface" social media app through the implementation of hashing and graphs

C

- Developed a program that accurately scans the lengths of every line and checks for tab characters to adhere to company programming style guidelines
- Created a "Nelovo" machine using a doubly linked list data structure and manipulation of bits to translate opcode instructions and assembly code from the CPU processing system

Ruby

- Managed phonebook with a complex class hierarchy that inserts and deletes users manually through object-oriented design
- Constructed a game board system utilizing inheritance properties to simulate a popular Battleship video game for user

HTML/JavaScript

- Splitting up into a frontend and backend team, worked together to develop a webpage for a local nonprofit in the area using web development skills
- Designed and developed local "Terp Store" using `async()` functionality to allow for interactive UI
- Worked with a professor to create a portfolio for lab research using frontend and backend technology as well as implementing Flask framework

WORK EXPERIENCE

Barista, Vigilante Coffee, College Park, Maryland September 2021 - Present

- Interact directly with dozens of customers daily to guarantee optimal, personalized experiences
- Efficiently craft beverages and food items while maintaining a high standard of quality
- Manage multiple tasks at once while collaborating with coworkers to provide efficient service to all customers

Campaign Assistant, Missouri Political Consulting, St. Louis, Missouri August 2018 - August 2021

- Canvassed door-to-door to over 500 households for multiple local political candidates
- Developed presentation skills and improved political knowledge by presenting candidates to strangers
- Spoke with St. Louis city residents about improving the city of St. Louis

Production Assistant, Municipal Opera St. Louis (Muny), St. Louis, Missouri July 2016 - September 2021

- Worked as a cashier and inventory manager to provide positive experiences for customers
- Promoted to Day Crew, streamlined and organized the flow of inventory throughout the establishment