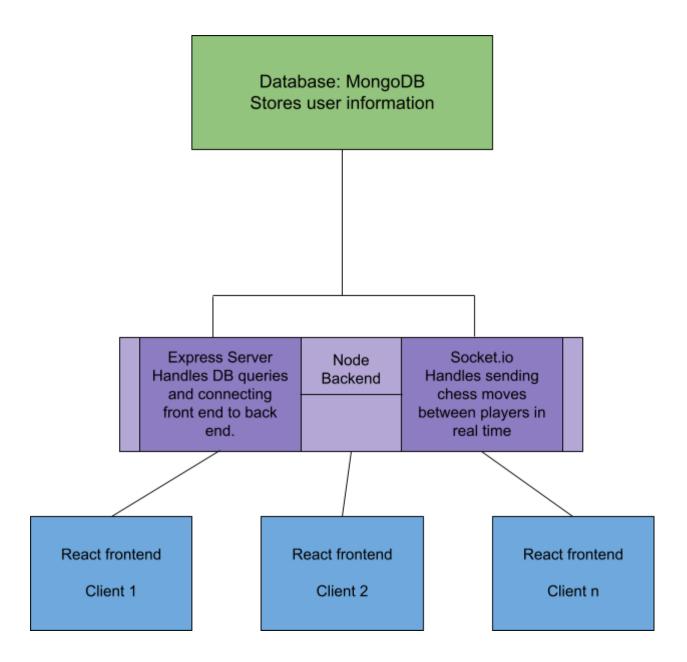
West Chester University

CSC468 Project Chess Game

Kevin Jusino Hilary Lumeh Ben McFalls Devin Parentice Emilia Quintana



Vision & Design

Our goal is to build a project to allow people to play chess online against other players and computer opponents. Our project will include user profiles with logins, a profile page where statistics and match history can be seen, and live chat between opponents.

Technical Requirements

For this project, we plan to use the MERN stack. Using this stack will simplify the process of developing and implementing the game. Since the technologies involved are designed to work together, much of the complexity can be reduced.

For the UI, we will be using React.js, the R in MERN. The front end will need to handle user logins, as well as the display and functionality of the chess board and all legal moves. Any time a login, new game, or move is attempted, our application will need to communicate with the server.

On the server side, we will be using Express and Node.js. Our server will communicate with the database in order to register and log in accounts as well as fetch user data. Our server will handle interfacing between clients to allow for real time chess playing with Socket.io.

Our database of choice is MongoDB, which will facilitate fast communication with the application. This database will store all information related to user logins and profiles. Since MongoDB stores information in JSON-like files, it is ideal for use alongside the rest of the MERN stack.

Kevin L. Jusino

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Professional Summary

A skilled computer scientist with 3-years of coding and development experiences; organized and strategic team player and project manager capable of guiding a team; independent and able to prioritize multiple projects.

Education

West Chester University of Pennsylvania. 2020 – 2023, B.S. Degree to be awarded May 2023

Dean's List FA2020, SP2021. Grade Point Average: 3.935

Major: Computer Science with focus on program development.

Related courses:

- Basic, Intermediate, and Advanced Java Language Computer Programming
- Intro C Language Computer Programming
- Computer Systems, Data Structures and Algorithms Penn State University Park, 2019 -2020

Dean's List FA2019, SP2020. Grade Point Average: 3.87

Major: Computer Science Engineering

Related courses:

- Engineering Design and Development
- Intermediate Python Language Computer Programming

Experience

CAP 2 (Stocking) Team Associate (Part Time) Aug. 2020 – Present, Wal-Mart

Duties included loading and unloading freight from trucks, pallets, and carts, lifting 40lbs or more daily, stocking and organizing shelves, providing customer service and assistance as needed

Burger King Cashier (Part Time), June 2018 – Aug. 2019, HMS Host Hickory Run Service Plaza

Duties included taking and delivering orders to customers, navigating the register screen and drawer, working efficiently during busy hours, training new hires, providing customer service and assistance, and replenishing stock of condiments and utensils.

Snow-Tubing Attendant (Part and Full-Time), Dec. 2016 – Jan. 2020, Jack Frost Big Boulder

Duties included directing guests up and down the snow slopes, radio communication with my coworkers, preparing equipment and electric carpets, inflating, and deflating, snow tubes, and digging pathways for guests and associates to move through.

Skills

General: Mathematically Inclined, Team Player, Project Planner, Leader

Computer: Products of: Microsoft Office, Google, Adobe, Apple, Windows, PC. jGRASP,

IDLE3, Terminal, Visual Studio Code

Coding Languages: Python, Java, C, Haskell Languages: English (Primary), Basic Spanish

References

References are available upon request.

Emilia Quintana

110 Woodmint Drive, West Chester, PA 19380 emiliaquintana97@gmail.com - (484) 844-5337

Education

West Chester University of Pennsylvania, West Chester, PA Graduation: May 2022

Bachelor of Science in Computer Science Current GPA: 3.9
Computer Security Certificate Major GPA: 3.9

Dean's List: Fall 2019; Spring 2020; Fall 2020; Spring 2021

Notable Courses: Software Security; Computer Security; Operating Systems

Work Experience

Endevor, LLC, Wilmington, DE

Dec 2021 - Present

Software Developer/Analyst Intern

Work within an agile framework on large software products.

• Develop front and back-end systems for multiple clients.

West Chester University of Pennsylvania, West Chester, PA Sept 2020 - Dec 2021 Peer Writing Mentor & Writing Center Tutor

- Guided students with interpreting and following writing assignments.
- Worked one-on-one with a diverse student body on writing skills.

Languages

French (intermediate) English (native)

Technical Skills

Programming Knowledge

- Java
- Python
- C
- C#
- Haskell

SQL

Linux

Microsoft Office Suite

Projects

Command Line Interpreter: a basic shell, written in C, capable of running built-in commands as well as those found on a path.

BENJAMIN McFalls

484.667.7294 | bmcfalls1@gmail.com 1114 Wilderness Trail, Downingtown, PA 19335

EDUCATION

 $West\ Chester\ State\ University\ |\ College\ of\ Sciences\ and\ Mathematics,$

Computer Science, GPA 3.83

The Pennsylvania State University | College of Information Sciences and Technology

PROFESSIONAL EXPERIENCE

West Chester, PA December 2022

University Park, PA Aug 2017- May 2018

SAP

Student Training and Rotation (SAP STAR) Internship program

- Multi-year rotational program with structured training in technical skills, business acumen, and soft skills
- In collaboration with Innovation Center, coded, tested, and developed solutions in alignment with project requirement.
- Leveraged and built knowledge in Java, Javascript, NodeJS etc. to meet business requirements for frontend and backend development.

Newtown Square, PA May 2021 - current

USLI

College Help Intern - Technical Infrastructure Team

- Diagnose and resolve technical hardware and software issues leveraging active directory and Dameware.
- Configure new systems to meet corporate standards and user requirements.

Wayne, PA Nov 2020 - Apr 2021

United Postal Service

Supervisor, promoted from package handler in Nov. 2019

- Trained and supervised a team of 10 package handlers ensuring the team meets safety and productivity objectives.
- Contributes to the growth of UPS by providing effective leadership, customer service and communication.

West Chester, PA Oct 2019 - Sept 2020

iD Tech - West Chester University

Lead Instructor summer 2019, promoted from Instructor following summer 2018

- Prepared lesson plans on a variety of topics including: cyber security, encryption, artificial intelligence, machine learning, coding, game design, and mobile application development.
- Lead a team of instructors in the day to day program operations as well as overnight supervision of students.
- Taught STEM classes to middle school and high school students applying behavior management techniques to encourage motivation, teamwork and a fun learning environment.
- Selected and served as a brand ambassador at events during the year

West Chester, PA May 2018 - Feb 2020

West Chester, PA Feb 2019 - June 2019

VOLUNTEER EXPERIENCE

Global Leadership Summit

Technology Assistant 2017 Event Assistant 2015, 2016, 2018

• Coordinated local, live HD simulcast technology for a 2 day leadership event in coordination with over 200 national sites, and serving over 400,000 people. Worked with a four person technology team at local site.

West Chester, PA Summer 2015 -2018

AWARDS, SKILLS

- JAVA, Python, Linux, HTML, Javascript, SAP S/4 HANA, SAP Ui5
- Machine Learning and AI: Tensorflow: Image classification, reinforcement learning with Open AI Gym
- Microsoft Office, Excel, Word, PowerPoint Proficient

Hilary Lumeh

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Education

West Chester University of Pennsylvania

Bachelor of Science in Computer Science

GPA: 3.4

Delaware County Community College

Associate of Science in Information Technology

GPA: 3.6

Work Experience

Amazon, West Deptford, NJ

February 2021 - present

Exp Graduation: May 2023

Graduated: December 2020

Picker, Amnesty certified

- Pick items ready to be processed, while working with others to reach a set goal
- Amnesty certified, troubleshoot the robots on the AR (autonomous robot) floor, remove fallen items from view of the ARs, manually or digitally change paths of the ARs, and make sure the employees (stowers/pickers) have a continuous flow of ARs coming to their stations

InfoCision, Philadelphia, PA

September 2020 – February 2021

Customer Support Representative

- Helped xfinity customers with problems relating to their internet or mobile devices
- Upgraded customers' internet and mobile services

United Parcel Service (UPS), Philadelphia, PA

January 2019 – January 2020

Hazardous Material Handler

- Sorted, scanned, loaded/unloaded packages and made sure that Hazmats were properly documented
- Helped to teach new employees the company's standards for handling and loading packages

Skills

- Technologies Bootstrap, react
- Languages Python, SQL, Java, Ocaml

Devin Parentice

devinparentice@gmail.com devinparentice.com

Education

West Chester, PA

B.S. in Computer Science

May 2022

- West Chester University, GPA: 3.47
- Extracurriculars
 - Participated in annual "HackWCU" hackathon
 - Member of Computer Science Club

Relevant Experience

Software Engineer Intern

JPMorgan Chase & Co.

Jun 2021 | Aug 2021

Wilmington, DE

- Developed executive report to aggregate data on all lines of business for C-level executives
- Improved navigation by utilizing natural language processing resulting in finding data 3x faster
- Worked on CI/CD pipeline with Jenkins to deploy code to production

Web Developer

Cirillo's Artisan Pizza

Nov 2020 | Jan 2021

West Chester, PA

- Increased sales by 200% via implementing online ordering system
- Designed, built, tested, and deployed website achieving over 50,000 monthly page views
- Improved email CTR by 25% by creating HTML marketing email templates

Projects

- MovieMagic (moviemagic.dev) Next.js, TypeScript, Sass
 - Website for finding movies in a more natural way. Search by cast, crew, genres, release date, ratings and more. View movie descriptions, watch trailers, and get statistics
- Portfolio Website (devinparentice.com) React, Tailwind CSS
 - Designed and built personal website to display project demos and host resume. Additionally features contact form to accept emails
- EriTea (drinkeritea.com) Liquid, JavaScript, Sass
 - Produced website for drink brand EriTea. Includes founder's story, product pages and direct-toconsumer online ordering

Technical Skills

- Languages: Python, JavaScript (ES6), TypeScript, Java, MySQL
- Technologies: React, Redux, Next.js, Node.js, Flask, Sass, Tailwind CSS, Bootstrap
- Tools: Unix/Linux, Git, Bitbucket, Postman, Jest, Enzyme, Jira, Confluence, Agile methodology

Additional Activities

Code for Good

JPMorgan Chase & Co.

Oct 2020

Hackathon

- Collaborated with team to develop interactive sign up form to reduce user drop-off
- Caused increase of successful user sign-up by over 40% for non-profit organization

Head Start Students Leader

Care Center Foundation

Sep 2018 | Jan 2019

Volunteer

- Lead technology education lessons in classroom to get children involved with computer science
- Taught computer literacy to underserved communities for employment and citizenship opportunities