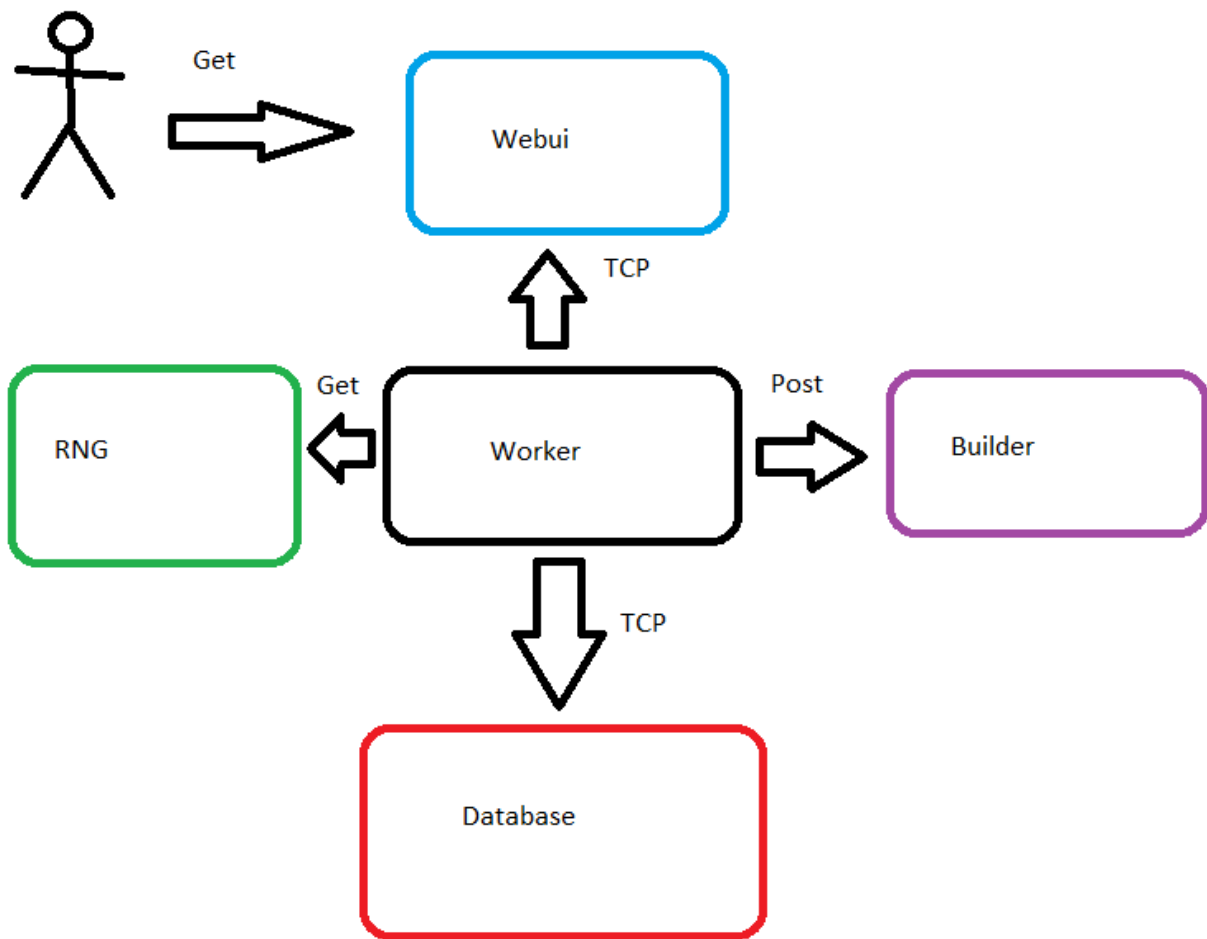


West Chester University

CSC468 Project
Minesweeper

Kevin Jusino
Hilary Lumeh
Ben McFalls
Devin Parentice
Emilia Quintana



Technical Report Chapter 2:

This project will be an online game of minesweeper. It will allow the user to interact with the web UI to play a game and have their score saved if it is better than any of the high scores.

The web UI will be made with JavaScript. It is where the user will play the game and get to interact with the minesweeper grid. This ui will need to track the time spent playing the game and number of actions as well as any other important information to store in the database.

The worker will be made with express and nodejs. It will handle the requests from the user and interact with all of the backend services.

The rng will be coded in python. It will generate a value that can be used to create a random grid to serve as an instance of the game board.

The builder will take the random value from the RNG and use it to actually generate a valid game of minesweeper. This will be coded in python.

The database will be where the information about games gets stored and it will track highscores. These high scores can be accessed through the UI. The database will use MySQL.

Kevin L. Jusino

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kevinlouis759@gmail.com 570-790-6460

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

Coding Languages: Python, Java, C, Haskell

Languages: English (Primary), Basic Spanish

References

References are available upon request.

Exton, PA
484-999-4087

Devin Parentice

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devinparentice.com

Education

West Chester, PA	B.S. in Computer Science	May 2022
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- 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
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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
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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

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- **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-to-consumer online ordering

Technical Skills

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- **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
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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
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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

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**

West Chester, PA
December 2022

The Pennsylvania State University | College of Information Sciences and Technology

University Park, PA
Aug 2017 - May 2018

PROFESSIONAL EXPERIENCE

SAP

Student Training and Rotation (SAP STAR) Internship program

Newtown Square, PA
May 2021 - current

- 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.

USLI

College Help Intern - Technical Infrastructure Team

Wayne, PA
Nov 2020 - Apr 2021

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

United Postal Service

Supervisor, promoted from package handler in Nov. 2019

West Chester, PA
Oct 2019 - Sept 2020

- Trains and supervises 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.

iD Tech - West Chester University

Lead Instructor summer 2019, promoted from Instructor following summer 2018

West Chester, PA
May 2018 - Feb 2020

- 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

Brandywine Valley SPCA

Adoption Counselor

West Chester, PA
Feb 2019 - June 2019

- Facilitated adoption process, created and maintained patient records, accurately handled payments and donations to effectively maintain no-kill shelter certification, and high volume, sustainable adoptions.
- Provided animal care including feeding, providing medications and maintaining cleanliness of facility.

VOLUNTEER EXPERIENCE

Global Leadership Summit

Technology Assistant 2017 Event Assistant 2015, 2016, 2018

West Chester, PA
Summer 2015 - 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.

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

Hila.lumeh@gmail.com | 215-594-6412 | 7701 Lindbergh Blvd, Philadelphia, PA 19153

Education

West Chester University of Pennsylvania
Bachelor of Science in Computer Science
GPA: 3.4

Exp Graduation: May 2023

Delaware County Community College
Associate of Science in Information Technology
GPA: 3.6

Graduated: December 2020

Work Experience

Amazon, West Deptford, NJ

February 2021 - present

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

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.