

# Amir Elrahep

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## EDUCATION

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**Westfield State University**

May 2022

**Major:** B.S. Computer Science – **Minor:** Mathematics – **GPA:** 3.75/4.0 – **Academic Award:** Dean's List

## PROJECTS

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**GitHub:** <https://github.com/AmirElrahep>

**Garage Manager** | Desktop App | Java, JavaFX, CSS, SQLite, Maven

- Developed following MVC design pattern utilizing Maven to handle dependencies.
- CRUD functionality for customer, vehicle, repair order, contact, inventory, and employee data.
- Connected to NHTSA API to retrieve data such as ratings, recalls, and complaints on a vehicle.
- Increased productivity at place of employment/other shops by decreasing record retrieval time.

**WSU Tower Defense** | Android Game | Java, Android, MySQL, Git, Scrum, AWS (RDS)

- Developed following MVC design pattern in 2-week Scrum sprints.
- Collaborated with a team of 5 developers via Git source control and peer programming.
- Contributed by creating the user interface and deploying the high scores database.
- Utilized AWS MySQL Relational Database Service (RDS) to store and retrieve high scores.
- Showcased during the WSU Evening of Discovery event for student excellence.

**Koi** | Social Media Website | React, Node, Express, MySQL, AWS (RDS)

- Collaborated in a team of 2 developers via Git source control and peer programming.
- Contributed by designing and creating the user interface using Material UI component library.
- Utilized AWS MySQL Relational Database Service (RDS) to store and retrieve data.

**Sudoku** | Desktop Game | Java, JavaFX, CSS, Maven

- Implemented multiple difficulty settings and the ability to switch between dark and light mode.
- Generates valid puzzle using backtracking algorithm and removes numbers based on difficulty.

## SKILLS

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**Proficient:** Java, JavaFX, Android, SQL, Git/GitHub, Agile Methodologies

**Familiar:** Python, C, C++, JavaScript, React.js, HTML, CSS, AWS

## WORK EXPERIENCE

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**Webster's Garage** | Auto Mechanic

2013 - Present

- Run computerized diagnostic tests to help identify components that might be malfunctioning.
- Perform routine maintenance according to schedules established by various manufacturers.

**A&A Radiator** | Radiator Repair Technician

2013 - Present

- Diagnose, repair, and inform customers how to maintain and increase longevity of radiators.

## ADDITIONAL INFORMATION

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**Volunteer** | St Mary's Spiritual Vineyard - Assist in the kitchen and aid in property maintenance