

LANGUAGES AND TECHNOLOGIES

- Java, Python, JavaScript, TypeScript, SQL, Dart, GoLang
- MySQL, sqLite, MongoDB, Firebase, Flutter, Git, Android, Docker, Google Cloud Platform,

EMPLOYMENT

Software Engineer Research Assistant	Boston University	Dec 2020 – Present
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- Core developer of open source projects, Ubiqlog2¹ and Insight4Wear², upgrading Gradle dependencies, configuring external libraries, and adapting the legacy code base to operate on 98.2% of Android devices
- Redesign entire user interface by making modifications to 8 XML files, improving the visual structure with Material design practices, and simplifying the user experience to 4 screens
- Implement a conversational agent (chat bot) capable of querying sqLite, MySQL, MongoDB, and Firebase databases, allowing users to effectively retrieve requested data and display it as a natural language response
- Develop REST APIs to send Google Fit data from users' phones to a web server using Golang and MongoDB for the back-end, and Android and retrofit on the client side
- Perform academic tutoring for 22 students, teaching advanced programming techniques and concepts, improving students problem solving skill set

Software Engineer Intern	Software App & Innovation Lab	May 2019 – Sep 2019
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- Revamped ASL-LEX, a database of lexical and phonological attributes of nearly 1800 signs in American Sign Language
- Built a data visualization tool with JavaScript and D3 that displays a graph network representing hand signs in American Sign Language to help researchers identify relationships among different signs
- Created a data pipeline to process more than 4GB of Sign Language information, automating researchers workflow
- Executed a shell script that deployed 3 python scripts on a Linux server in order to generate more than 1800 hand sign data in preparation for the graph visualization

EDUCATION

Boston University	Boston, MA	Aug 2018 – May 2020
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- **M.S. in Software Development, GPA: 3.77**
- **Graduate Coursework:** Algorithms and Data Structures, Analysis of Systems and Design, Agile Software Development, Advanced Programming Techniques, Software Design Patterns, Web Development, Machine Learning

Quinnipiac University	Hamden, CT	Aug 2013 – May 2017
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- **B.S.E. in Computer Science**
- **Undergraduate Coursework:** Programming and Problem Solving, Data Structures and Abstractions, Object Oriented Design and Programming, Computer Architecture and Organization, Algorithm Design and Analysis, Introduction to Software Development

PROJECTS

- **Electronic Toll System:** Simulation of different types of vehicles traveling through electronic tolls where users will receive a monthly bill for the total distance vehicles travelled. Java, Maven, MongoDB, Docker
- **MET-CS665 Design Patterns** Contributed to MET665 course by implementing 10 examples of design patterns and recording 14 lectures explaining the code. Java, Maven
- **Recipe Arsenal** Web application that fetches recipe data from an API and displays the full details and content of that recipe. JavaScript, Webpack, Babel, Node
- **Social Share (Instagram Clone):** Social media application utilizing mobile sensors to capture photos and share user locations. Dart, Flutter, Firebase

ADDITIONAL EXPERIENCE AND AWARDS

- **2019 Citizens Bank Challenge:** Shared Challenge 1st place winner, out of 24 teams
- **2017 Quinnipiac Hackathon:** 2nd place winner, out of 13 teams

¹<https://gitlab.com/rezar/Ubiqlog2>

²<http://insight4wear.com/>