

# Alexandros Lamprianidis

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## SKILLS

**Programming Languages:** C, C#, C++, Dart, Java, JavaScript, Python, SQL;  
**Tools:** Docker, Eclipse, GIT, Kemp, Linux, npm, VSCode, VMWare ESXI, Xcode;  
**Libraries:** Flutter, Hyperion; hashlib, bitcoinlib, JQuery, JQuery;  
**Extras:** Agile, MVC architecture, UI Design;

## EDUCATION

**George Mason University** — Bachelor of Science in Computer Science

**Fairfax, VA**  
Aug. 2018 - July. 2022

## WORK EXPERIENCE

**TheAbleHandyman LLC** — Owner

**Fairfax, VA**  
June 2020 - Present

- Founded and operated a Handyman company.
- Served over 400 customers in 2 years.
- Earned \$80,000 in revenue working around my schedule
- Earned valuable experience in dealing with customers
- Attributed success through my focus on customer needs

## PERSONAL PROJECTS

### YaP - Patriot Hacks

March 2022

- Developed an IOS application to assist rescuers in finding people lost in rumble through the use of their BlueTooth devices.
- App attempts to triangulate the position of a device to be found using 2 additional “searching” devices
- Architected **using the Flutter** framework

### Personal LoadBalancer

Jan. 2022

- Deployed personal L7 load balancer **using kemp** technologies on home network
- Allows secure access to ESXI server through the web
- Allows secure access to personal pi-hole DNS server
- Allows access to 3D printer services

### Strength - Workout Scheduler

Dec. 2021

- Designed a website **using replit** to create workout routines according to user’s goals and customize the workout plan through the exercise selection, intensity/weight (RPE), and volume of the workout(Sets/rep schemes).
- Developed the scheduling algorithm that determines the number & type of exercises for each day in the user’s schedule
- User information is securely stored in an SQL database and retrieved upon login

### DNS Client - Networking

Nov. 2021

- Developed a DNS client in **python** that can query an existing DNS server for a domain name to IP address translation
- Creates a UDP socket connection to the server then receives

### Reinforcement Learning - Artificial Intelligence

Oct. 2021

- Implemented model-based and model-free reinforcement learning algorithms **using python**, applied to the AIMA Gridworld, Pacman, and a simulated crawling robot.
- Used value iteration and Q-Learning to refine the output.

### GNU Shell

April 2021

- Bash/Shell program created from Scratch **using C**.
- The program can accept a single line of command from the user, execute built in commands, run user specified programs, support multiple numbers of jobs with job handling, file redirection and job control.

### HomeKit/Amazon Alexa Enabled Smart Devices

June 2018 - Present

- Wrote **software in C++** to interface with personally created hardware devices . The software is operated through Apple’s HomeKit environment and ported to Amazon’s Alexa for added connectivity.
- Created IoT devices that “talk” to each other via MQTT and can be controlled with Siri or Alexa