KHALED AL-AMOODI
Full Stack Software Engineer

khaled@alamoodi.io
www.alamoodi.io
www.linkedin.com/in/alamoodi
www.github.com/kayloody

PhD candidate in **computer engineering** with 1 year of work experience in **full stack software development**. Can quickly learn and leverage cutting-edge technologies, UI/UX principles and APIs to craft rich user experiences.
Skills include:

- Front End & Back End
- JavaScript ES6+
- HTML & CSS/SASS
- React.js
- Node.js
- Client-Server Architecture
- NoSQL (MongoDB)
- Express.js
- REST APIs
- Git/GitHub
- UI/UX Design
- Figma & Adobe XD
- Team Player
- Prioritization
- Written/Verbal Communication

EDUCATION

PHD COMPUTER ENGINEERING | *GPA*: 4.0 **–** UNIVERSITY OF ALBERTA **–** EDMONTON, CANADA   JUL '14 – AUG '21

- Reduced prototype testing time by **> 8 hours** by automation through a **C#** and **Python** program interfacing with equipment using **Arduino** running a **C++** software
- Communicated research through **3** peer-reviewed papers (with **16 citations**), a patent and at a conference
- Mentored **2** junior researchers, including teaching how to use equipment and how to use **Linux**-based tools
- Delivered on **deadlines** to maintain sponsorship from the sponsor, TELUS Communications
- Learned from previous failed prototypes to design newer, great performing ones

MSC COMPUTER ENGINEERING | *GPA*: 3.9 **–** UNIVERSITY OF ALBERTA **–** EDMONTON, CANADA   JUL '13 – JUN '14

BSC ELECTRICAL ENGINEERING | *GPA*: 3.9 **–** UNIVERSITY OF ALBERTA **–** EDMONTON, CANADA   SEP '09 – JUN '13

- Graduated with First Class Standing - **ranked 5 out of 112 graduates**

EXPERIENCE

LEAD SOFTWARE DEVELOPER | eWorx Technology **–** EDMONTON, CANADA **–** INTERN   MAY '21 – PRESENT
Lead a team of developers to research, design, and build a multi-platform eCommerce integrator **web application**.

- Mentored and delegated tasks to a growing team of **PHP back end** and **MySQL database** developers
- Planned, with the project manager, the short and long term goals of the project using **Jira**
- Created client-facing pages and reusable components using **React.js**
- Learned Dart to develop and debug **iOS** and **Android mobile applications** using **Flutter**
- Improved codebase readability by encouraging the use of Airbnb **coding standards** and formatting

SOFTWARE DEVELOPER | NeurAlbertaTech **–** EDMONTON, CANADA **–** VOLUNTEER   MAY '21 – PRESENT
Worked across front end, data analytics and game development on the Koalacademy language learning project.

- Overhauled pages to meet **UI/UX** principles of **responsiveness** and **accessibility** using **React.js**
- Implemented a data processing function used on **3 client-side pages** using **JavaScript**
- Built a store, for more user engagement, that will be integrated with **Firebase cloud** services
- Collaborated across teams: front end, back end and game developers, researchers, and illustrators
- Created a model rig and **2 animations** for the game's playable character using **Blender**
- Implemented character and animation control for the playable character using **Unity**

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APPLICATION DEVELOPER | eWorx Technology **–** EDMONTON, CANADA **–** INTERN   FEB '21 – APR '21

- Developed a major page and **5** reusable **components** (one used on **4/5 pages**) using **React.js** and **CSS**
- Promoted **efficiency** for future **back end** development with a matrix to easily compare fields in different **third-party APIs** (including Amazon, eBay and WooCommerce)
- Conducted **peer code reviews** on all pull requests by the other developers
- Collaborated with developers to design **over 20** intuitive and visually consistent wireframes using **Figma**

FULL-STACK SOFTWARE DEVELOPER | swftli.me **–** EDMONTON, CANADA   DEC '20 – APR '21

swftli.me is a social media reference landing page. You can personalize your page, set your social media accounts, and create cards to redirect to your links. Test-run with username: Visitor and password: Visitor1$

- Developed the **front end**, with routing, using **React.js** and **server-side design** using **Node.js** & **Express.js**
- Implemented **database** including schema using **MongoDB (NoSQL)** and authentication using Passport.js
- Designed the application, with **UI and UX principles** for a seamless experience, using **Adobe XD**
- Launched the personal project within **two months** of development
- Incorporated a Tensorflow.js **machine learning** model to filter user-uploaded images

ACCOMPLISHMENTS

- Selected as one of **50 from 500 applicants** for a government-funded professional development program
- Received **13 scholarships** throughout post-secondary education based on academic and research criteria
- Invited as a reviewer for **3** conferences (IEEE AP-S/URSI 2021, NCC 2021 and IEEE ISCAS 2020) and **1** academic journal (IEIE SPC 2020)
- Invited as a facilitator for a group of **5-7** young professionals during weekly government-funded professional development sessions over **4 months**
- Coordinated, alongside organizers, with **2 speakers** on a self-started **8-week** Toastmasters program for **13 youth leaders**

MEMBERSHIPS & CERTIFICATES

- Institute of Electrical and Electronics Engineers (IEEE) │ Member
- Association of Professional Engineers and Geoscientists of Alberta (APEGA) │ Engineer-in-Training (EIT)
- University of Alberta │ Graduate Teaching and Learning (GTL) Program – Level 1
- Technology Alberta │ Technology SME Professional Development Series for Young Professionals
- Laboratory & Chemical Safety
- Workplace Hazardous Materials Information System (WHMIS)