

## Skills (Proficient, Competent, Beginner)

Games: Unreal Engine, Defold, C++, C, Lua, Computer Graphics, GLSL, OpenGL, Metal, FMOD

Web: React, Node.js, JS, CSS, TypeScript, FlowType, Redux, Socket.io, MaterialUI, ReactBootstrap, Styled Components, MobX, SQL, Redis, MongoDB

Mobile: React Native, Objective-C, Swift, SwiftUI, Java, JNI

Tooling: Git, Vim, Bash, Docker, Networking, Server deployment, CI/CD, Github Actions, Python

Misc: Arduino, Embedded AVR, Embedded ARM, Bluetooth LE, Electronics, Compilers, Security, UI/UX, Sound design

Hobbies: LARP, Tabletop, Improv theatre, DIY, Sewing, 3D CAD, Piano, Singing, Music production

## Notable Projects

### The Gods are Fickle

- Led the development of a [turn-based multiplayer tactics game](#) in Unreal Engine.
- Designed architecture, wrote game logic, editor tooling, multiplayer, AI, Node.js multiplayer backend and other systems.

### Fuior

- Built programming language for narrative design. Compiles to Lua. Syntax and linting plugins for Vim, VSCode and Atom.

### Interrogation

- Led development for launched conversational puzzle game. Defold, Fuior.
- Developed web-based (React, Redux) [tool](#) for designing complex conversational trees.
- Managed build automation, releases and updates on Windows, macOS, Linux, iOS, Android and Nintendo Switch.

### Good Morning A.I.

- Led development for visual novel with tower defense component. Defold, Fuior.

### Kamua

- Wrote front-end for a web-based AI-assisted video editor. React, MobX.

### SmartSous

- Wrote the client-side (React Native), the data collection I/O (Node.js) and the embedded firmware (Arduino + AVR C) for a cooking-related IoT project for a customer.

## Experience (full list on LinkedIn)

### Co-Founder, Lead Developer

#### Critique Gaming (2015-present)

- Lead developer for TGAF, Interrogation, GMAI and several other in-house or commissioned Defold or React projects, leading a team of two other programmers.
- Built full-stack data collection solution for a commissioned research game. (React, Node)
- Experience with CI/CD, build pipelines, network and system administration.

### Senior Frontend Developer

#### Kamua (2018-2019)

- Wrote frontend for web video editor.

### Senior Frontend Developer

#### DocProcess (2017-2018)

- Wrote frontend for an invoice processing web platform with React, Redux.

### Software Engineer

#### Learn Forward (2014-2015)

- Developed authoring tool for HTML5 collaborative text-books. Backbone.js, Gulp.

### Bachelor's Degree, Computer Science

#### Polytechnic Univ. of Bucharest (2013-2017)

### Misc. experience

- Developed two iOS jailbreak tweaks (reverse-engineering Objective-C APIs).
- Wrote cross-platform game engine from scratch (C++, Lua, OpenGL).
- Wrote debate tournament tabulation software (Angular).
- Debate trainer for two years for a group of high-schoolers.