



# Allan Barrielle

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## EDUCATION

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### 42 programming school - Paris

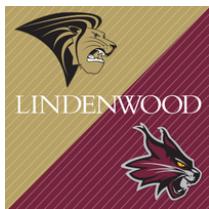
08/2016–Present



- C (C99 standard), Bash script, Python3
- Unix development, GDB
- C++ x1+ STL
- Node.js, Javascript ES6+, TypeScript, React/Redux
- Experienced with ASM x86 (NASM)
- Implementations of a min-max algorithm

### BS in Computer Science - Lindenwood University - St Louis USA

08/2014–06/2016



- Calculus: limits, continuity, differentiation and integration
- Biology: evolution, cellular biology, genetics, and ecology
- Computer Science: input/output statements, file I/O, assignment operations, conditional statements, iterative statements, functions, and array processing
- Physics: kinematics, vectors, Newton's laws, and conservation laws for energy, linear momentum, and angular momentum, gravitation, fluids, simple harmonic oscillations, waves, and thermodynamics

## WORK EXPERIENCE

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### jeuxvideo.com - Webedia - Paris

08/2014–06/2016



- Full stack Javascript development (PostgreSQL, ES6+, Node.js, React) to support the entire website ( 70millions visits/month)
- Successfully helped transferring the website's stack from PHP to Javascript
- Optimization of the database structure and queries with indexes, denormalization, advanced materialized view
- Sprint/features/AGILE development workflow
- Using Git in a Team environment

## PROJECTS

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**42** Rewriting the following: `libc, malloc, printf, ls, nm, otool, quine`

**Gomoku** Make an AI capable of beating human players at Gomoku. C++ X1+ project, Implementations of a min-max algorithm (NegaScout version) with an alpha-beta pruning. Graphical interface implemented with SDL2 library

**Movie Streaming App** Stream w/ BitTorrent protocol. Front-End with React/Redux. Back-End with Node.js typeScript, documented with swagger.io, knex and Passport.js

**Online dating App** Implemented with React, SocketIO. Back-End Api express, postgreSQL, homemade orm and cms

## SIDEWORK

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### International Students Attendant - ESL Assistans Teacher

08/2014–06/2016



- Development of a program to help international students integration. Responsible of maintaining the ESL's website
- Helping the international students by providing/writing documentations, challenging them with real interview and supporting with paperwork and administration

### Wiki by students for 42

04/2018–Present



- Develop and maintain a Wiki for 42, open source and editable by the 42 community using git/github

## SKILLS

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**Programming** Very experienced in C, Javascript

**Code quality** Healthy habits regarding coding conventions (norm, lint), documentation and testing

**Team working** Well-verses in AGILE principles and experienced in pair/mob programming

**Security** Good knowledge in reverse engineering (elf) and Modern Binary Exploitation, gdb w/ PEDA

**Languages** Fluent in English and French