DAVID DA SILVA CONTÍN

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EMPLOYMENT

Software Engineer Intern

Improbable

Summer 2017

- Performed research and wrote design guides about the challenges that distributed systems bring to player movement, state machines, AI, artificial ecosystems, and organically stable ecosystems.
- Nurtured the company's culture by proactively organizing internal "Learn" events such as a company-wide game jam, giving a talk about programatic/urban art to the design team, and introducing coworkers to VR.
- Engaged with the community through Twitter and forums. Referred to as that "amazing intern that solved our problems".

Organiser and Lead Designer

Hackers@UPC

Spring 2015 - Present

- Kickstarted our regular HackNight, a weekly event to work on projects and learn together.
- Designed the brand, logos, website, and swag for KairosHacks, HackUPC 2016S, and HackUPC 2016F.

Front-end Engineer

Toggl

March 2015 - March 2016

- Introduced and promoted ChatOps. Automated several recurring tasks via git hooks and Hubot commands.
- Stopped A/B test development from being highly error-prone by building a developer-friendly library that works around requirement mismatches detected in proactive research.
- Improved developer experience by centralizing our knowledge base, adding linters, and performing thorough code reviews. "I learned more in a week than in 7 months at my last job, and it was mostly because of your reviews".
- Participated in the design and coding of the Notifications overhaul. Fixed multiple XSS vulnerabilities.

Course Teacher and Former President

VGAFIB

June 2013, Jan 2014, July 2015

- Recurrent course about "Multiplayer Online Games using Node.js" at UPC BarcelonaTech.
- Taught lessons covering: JS ES6, Node.js, CI, CD, game development, P2P vs centralized, (non)authoritative server, lock-stepping, simulation with redos, dead-reckoning, agreed input delay, clock syncing.

PROJECTS AND OPEN SOURCE

- #art+#code series of experiments where art is generated using code.
- <u>AG-Drift</u> multiplayer online racing game for the browser. Minimized network usage by running deterministic simulations that only need to receive all players' input events in order to get synced.
- LudumPad Open Source library for using mobile devices as external game controllers.
- Mocha (Core Member) Most popular JS test framework, with over 100,000 dependent public projects. 5M monthly downloads. I've reviewed ~130 PRs. Together with the core team I make decisions about Mocha's future.
- Kipos Unfinished iOS game with no marketing but over 80k downloads and a 4.5/5 rating average.
- <u>1st Prize</u>, <u>PennApps 2015 (~1400 participants)</u>: <u>LifeSaber</u> Product Design for watch app that guides users through correct CPR, automatically calls 9-1-1, and instructs nearby app users to bring defibrillators.
- I have published 152 open source repositories on GitHub and 27 packages on npm.

EDUCATION

Barcelona, Spain

Open University of Catalonia

Spring 2016 - Summer 2018

• Undergraduate Coursework: Artificial Intelligence, "Automata, Grammars, and Languages", Compilers, Cryptography, Database Architecture, Distributed Systems.

Barcelona, Spain

Polytechnic University of Barcelona

Fall 2012 - Summer 2014

• Undergraduate Coursework: Physics; Databases; Computer Interfacing; Data Structures and Algorithms; Probability and Statistics; Operating Systems; Interaction and Interface Design.