

# Tudor Popa

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## Education

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### Babeş-Bolyai University

BS IN COMPUTER SCIENCE, MATHEMATICS

Cluj-Napoca, Cluj, Romania

Oct 2006 – May 2009

### Horea, Cloşca şi Crişan Highschool

INFORMATICS, MATHEMATICS

Alba-Iulia, Alba, Romania

Sep 2002 – Jun 2006

## Work Experience

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### Black Tree Software

CHIEF TECHNOLOGY OFFICER & CO-OWNER

Cluj-Napoca, Cluj, Romania

Sep 2016 – Present

- Drove the development of a sports betting / online gambling white label PaaS.
- Had operations in 3 north african countries (Ghana, Uganda and Kenya).
- Managed a team of 8 developers, following an agile approach.
- Designed and implemented the software architecture of the whole platform, creating a decoupled, highly scalable, components based system.
- Worked alongside a DevOps team on designing and implementing a complete continuous integration / continuous delivery solution using the AWS cloud.
- Implemented machine learning data models for predicting and categorizing user activities / behaviors.
- Developed a lottery extraction tool which allowed the client to set a custom RTP (return to player) percentage using genetic algorithms.
- Worked with technologies ranging from low level code designed for currency detectors (ccTalk protocol) to high-level frontend libraries.

### HiPPONET

CHIEF TECHNOLOGY OFFICER

Cluj-Napoca, Cluj, Romania

Sep 2012 – Sep 2016

- Managed a team of 6 developers on various outsourcing projects.
- Collaborated with the Penvision swedish company, developing a SaaS platform which offered the possibility of online storage and processing of handwritten documents, using a proprietary handwriting recognition solution.
- Re-worked swedish company's Rahmqvist CRM tool
- Developed and published the Rahmqvist PIMNotes app for both Android and iOS

### wixi.com

LOCAL MANAGER / LEAD SOFTWARE ENGINEER

Cluj-Napoca, Cluj, Romania

Sep 2008 – Sep 2012

- Managed the Cluj-Napoca office operations.
- Managed a team of 5 developers, working on a file hosting service similar to Dropbox, which was the main competitor at that time.
- Wrote a complete UI library with comparable window manager-like features in vanilla JS

### OpenData

SOFTWARE ENGINEER

Cluj-Napoca, Cluj, Romania

Mar 2008 – Jul 2008

- Designed and implemented a CRM tool following Cluj's biggest real-estate agency (at that time) requirements.

### WebHorizon

JUNIOR SOFTWARE ENGINEER

Cluj-Napoca, Cluj, Romania

Apr 2006 – Jul 2006

- Worked on the Audi car manufacturer french site, developing various components for the client site and the backoffice.

## Skills

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**Programming Languages:** Python, Javascript, Rust, Bash

**Databases:** MongoDB, Redis, MySQL, Couchbase

**Web Servers:** Nginx, Apache

**DevOps:** AWS, Kubernetes, Jenkins, Chef

**Frontend:** React, Backbone

**Backend:** nodejs frameworks - express, socketio, crossbar, python frameworks - django, twisted

**Machine Learning:** TensorFlow, Keras, Brain.js

# Side Projects

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## Github profile

VARIOUS OPEN SOURCE PROJECTS THAT I PERSONALLY USE.

*Javascript, Pyhton, Bash*

*<https://github.com/doidor>*

## Random maze generator

A PERSONAL PROJECT THAT'S DESIGNED TO FEED A MULTIPLAYER, MOBILE GAME WITH RANDOM GENERATED MAPS, USING A GENETIC ALGORITHM AND RANKED BY AN A-STAR ALGORITHM SCORE IN CONJUNCTION WITH A COMPLEXITY INDEX.

*Javascript*