

# Tudor Popa

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## Education

- Oct 2006 | **BS in Computer Science, Mathematics**, *Babeş-Bolyai University, Cluj-Napoca, Cluj, Romania.*  
May 2009  
Sep 2002 | **Informatics, Mathematics**, *Horea, Cloşca şi Crişan Highschool, Alba-Iulia, Alba, Romania.*  
Jun 2006

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## Work Experience

- Sep 2016 – **Chief Technology Officer & Co-Owner**, *Black Tree Software*, Cluj-Napoca, Cluj, Romania.  
Present
  - Currently driving 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 with along with a DevOps engineer on designing and implementing a complete continuous delivery solution.
  - 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.
- Sep 2012 – **Chief Technology Officer**, *HiPPONET*, Cluj-Napoca, Cluj, Romania.  
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
- Sep 2008 – **Local Manager / Lead Software Engineer**, *wixi.com*, Cluj-Napoca, Cluj, Romania.  
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

Mar 2008 – **Software Engineer**, *OpenData*, Cluj-Napoca, Cluj, Romania.

Jul 2008 ○ Designed and implemented a CRM tool following Cluj's biggest real-estate agency (at that time) requirements.

Apr 2006 – **Junior Software Engineer**, *WebHorizon*, Cluj-Napoca, Cluj, Romania.

Jul 2006 ○ Worked on the Audi car manufacturer french site, developing various components for the client site and the backoffice.

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## Skills

Programming Languages Python, Javascript, NodeJS, Bash

Databases MongoDB, Redis, MySQL, Couchbase

Web Servers Nginx, Apache

Machine Learning TensorFlow, Keras

Frameworks

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## Side Projects

**Github profile**, *Javascript, Python, Bash*.

Various open source projects that I personally use.

<https://github.com/doidor>

**Random maze generator**, *Javascript*.

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.