

Alexandros Solanos

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Education

Sep 2012 | **Master's in Electrical and Computer Engineering**, *University of Patras*,
present GPA: 7 (pending), *Patras, Greece*.

Experience

Sep 2016 – **Software Engineer**, *TourPanda*, Patras, Greece.
Present

- Backend (Node.js, Redis, MongoDB, PostgreSQL)
- Frontend (React.js, Next.js, jQuery)
- Devops (IaC in DO/GCP, CI/CD with Kubernetes)
- Scrum Master

Sep 2014 – **IT support**, *Blue Star Ferries Agency*, Patras, Greece.
Sep 2016

- Building resource tracking application (PHP)
- General IT support

Skills

Programming Languages Typescript, Python 2/3, Bash, PHP, C / C++, Java
Libs / Frameworks Express.js, Next.js, React.js, Nest.js, CakePHP, Qt (C++ and Python), Gtk 2.0, Various ORMs
Devops tools Kubernetes, Helm, Helmfile, Ansible, Terraform
People Lead of developer team, Scrum Master, Interviewing for technical positions, Public speaking
Languages Greek (native), English (C2)
Editors VSCode, Vim, QtCreator, Eclipse, Sublime Text

Projects

Wallch, *C++ / Qt*.

A first C++ GUI experiment that made its way into the official Ubuntu repositories (2010); a wallpaper changer. A big learning project that used multithreading to not block the UI thread.
<https://launchpad.net/wallpaper-changer>

MalvaGallery, *PHP / CakePHP, MySQL*.

A simple website built with CakePHP for my artist uncle. A learning project for web development which also features users and paintings management.

<https://malvagallery.com/>

University Department E-class, *PHP / CakePHP, MySQL*.

An open e-class clone (<https://www.openeclass.org/en/>); a university project. Co-created along with another university student.

<https://github.com/themetalfleece/university-department-eclass-project>

python-digitalocean-ssh, *Python 3*.

A python project aimed to make DO VMs easily accessible via ssh at any time.

<https://github.com/hytromo/python-digitalocean-ssh>

MacroPolo, *Python 2 / Qt*.

A python module that can be used in order to automate high-level processes (macros)

<https://github.com/hytromo/MacroPolo>

Anem, *C++ / Qt*.

A graph generator that combined the powers of C++, ImageMagick and rrdtool to generate graphs regarding the power output, wind direction and wind speed of wind turbines. This side-project is dating back to 2013 and it wasn't intended for production use but it ended up being used for years by Petrogaz (<https://www.petrogaz.gr/en/>). Sadly the project got discontinued.

<https://github.com/hytromo/anem>

Awards

Bosch XDK Ideation Jam Winner, *Aug 2016*.

Our team's project was deemed to be the best on using Bosch's XDK in an internet of things application: <https://www.youtube.com/watch?v=kPfR4irPERg>

Bosch

Volunteering

Jun 2010 – **Assistant to the team leader**, *TsikiBoom Camping*, Chania, Greece.

- Jul 2010
 - o Team activities
 - o Creative learning

Papers

Cyber-Physical Microservices: An IoT-based Framework for Manufacturing Systems.

Conference: 1st IEEE International Conference on Industrial Cyber-Physical Systems (ICPS 2018), Saint Petersburg, Russia, May 15-18, 2018.

<https://bit.ly/2BXPLsz>