# Andy Hayden

Passion for finding simple and elegant solutions to complex problems.

## Experience

2017 -

*Chief Technology Officer,* [*Altos Research*](https://altosresearch.com/)*.*

* Oversee infrastructure and all product development.
* Ensure software engineers and their teams can iterate effectively.

2016 - 2017

*Principal Software Engineer,* [*Altos Research*](https://altosresearch.com/)*.*

* Automating weekly processes, simplified monitoring, using ASG and SQS.
* Simplifying/containerizing majority of stack from Opsworks to Elastic Beanstalk.

2015 – 2016

*Senior Software Engineer,* [*Altos Research*](https://altosresearch.com/)*.*

* Full-stack: Scala/Play, Angular, Postgres, Nginx.
* Responsible for web product: white-labelled real estate market reports.
* Designed and implemented the payment system using Stripe.

2014 – 2015

*Technical Consultant, Freelance (USA).*

* Contract software development (specializing in building data tools).
* Teaching companies how to leverage python for data science.
* Led workshops on git migration/best practice, and leveraging continuous testing and deployment.

2013 – 2014

*Software Engineer and Data Scientist, Awesome Decision.*

* Designed and implemented machine learning in decision flows.
* Back and front-end development using ruby-on-rails, angular, heroku, redis, and postgres.

2012 – 2013

*Lead Analyst and Technical Manager, Pierce Protocols.*

* Using python - pandas, numpy, scikit-learn - for data analysis in the art market.

## Education

* *Master of Mathematics, First class with honours,* [*University of Warwick*](https://warwick.ac.uk/fac/sci/maths/)*.* Thesis: *Lattice Stabilisers & Closed Orbits For SL(2, R) Actions On Translation Surfaces.*
* *A-levels, Mathematics, Further Mathematics, Physics, and Chemistry,* [*Esher College*](https://www.esher.ac.uk)*.*

## Self Learning

* *Stack Overflow*: 300k+ reputation, [legendary](https://stackoverflow.com/help/badges/146/legendary?userid=1240268).
* *Udacity*: Design of Computer Programs, Programming a Robotic Car, Web Application Engineering.
* *Coursea*: Functional Program Design in Scala.
* *AWS*: Solutions Architect Associate, Sysops Administrator Associate.
* *Speaker*: Python and Julia meetups to audiences of up to 300.
* *Open source*: previously pandas and julialang team member.

## Other qualifications and awards

* Associate of the Higher Education Academy.
* Five Star White Water Leader (Kayak), [British Canoe Union](https://www.britishcanoeingawarding.org.uk).
* Level Three Kayak Coach, [British Canoe Union](https://www.britishcanoeingawarding.org.uk).

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