

Andy Hayden

Passion for finding simple and elegant solutions to complex problems.

Experience

2017 - *Chief Technology Officer, Altos Research.*

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

2016 - 2017 *Principal Software Engineer, Altos Research.*

- 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.*

- 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.* Thesis: *Lattice Stabilisers & Closed Orbits For $SL(2, R)$ Actions On Translation Surfaces.*
- *A-levels, Mathematics, Further Mathematics, Physics, and Chemistry, Esher College.*

Self Learning

- *Stack Overflow:* 300k+ reputation, [legendary](#).
- *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](#).
- Level Three Kayak Coach, [British Canoe Union](#).

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