H. Chase Stevens

+44 771 966 3016 — chase@chasestevens.com

EXPERIENCE

Software Engineer at **Skyscanner, Ltd.** August 2013 - Present

- Maintained and developed business-critical web scraping and deep-linking platform and associated framework, parsing over 8 GB/s of data to serve >3000 requests/second
- Leveraged NLP and machine learning techniques to deliver browser-based, point-and-click tool for automatic generation of web scrapers
- Spearheaded and co-authored Selenium WebDriver-based browser automation and web scraper framework in Python
- Created AST-based tooling allowing real-time analysis, manipulation, generation, and automated quality assurance of code in multi-million line legacy codebase

Intern, Data Acquisition at **Skyscanner, Ltd.** May 2013 - August 2013

- Developed, maintained, and ensured accuracy of revenue-driving web scrapers

Quality Assurance Engineer Intern at **CashStar, Inc.** June 2011 - August 2011

- Ensured adherence of consumer-facing products to quality standards
- Developed custom CMS to manage client requirements and specifications

EDUCATION

University of Edinburgh: *MSc. Artificial Intelligence* 2015 - 2016
Specialism in Natural Language Processing
Dissertation: *Applying Statistical Language Modeling to Genetic Programming*

University of Edinburgh: *MA Hons. Cognitive Science* 2011 - 2015
First-class honours
Dissertation: *Understanding Referential Coordination as a Particle Swarm Optimization Task*

SKILLS

- Code: Python, Haskell, Matlab, Java
- Data: XPath, Protobuf, Hadoop, Kafka
- Test: Selenium WebDriver, Hypothesis, Pytest
- Build/Deployment: Docker, AWS, TeamCity, RPM, Ansible
- Tooling: PyCharm, Jupyter Notebook, Visual Studio, SVN, Git

RESEARCH

2015. Stevens, H. C. & Rohde, H. "Modeling Referential Coordination as a Particle Swarm Optimization Task." The 19th Workshop on the Semantics and Pragmatics of Dialogue. Gothenburg, Sweden.

OPEN-SOURCE PROJECTS

- xpyth: construction of XPath queries using native Python comprehension syntax
- astpath: command-line utility/library for searching Python codebases via AST queries
- showast: Jupyter Notebook plugin for AST visualization; used in computer science curriculum at Bryn Mawr College

SELECTED HONORS AND AWARDS

April 2015	*Edinburgh Award*
February 2013	*University of Edinburgh Smart Data Hack "Community App Award" for SaferRoute (Team Leader)*
May 2012	*University of Edinburgh INF1-OP "Best Project (Experienced)" for StratLoc*
Spring 2011	*Class of 2011 Valedictorian, The New School, Kennebunk*
Spring 2010	*National Merit Scholar Finalist*