CONOR STUART ROE

BACKEND WEB & NLP ENGINEER

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EXPERIENCE

The Kyrium Group   2018 - Present
Lead Developer

- Created all technical elements of My Fleet Sheets, a proprietary email and data management service for private aviation
- Handled a variety of other freelance technical projects, using tools ranging from Scrapy to Rails to EC2

The Vanguard Group   2018
Automated Telephony & Contact Analytics

- Refactored predictive analytics scripting for calling and mail
- Created a custom VXML parser and interpreter on JSP as part of a standalone testing platform for telephony services
- Helped pilot internal use of MEAN stack for app development

Haverford Digital Scholarship   2017 - Present
Developer on the Ticha Project

- Contributing developer for digital archive of Zapotec language documents dating to colonial period
- Pipelining and integration of data from multiple academic and research sources into user-friendly web resource
- Develop new research and accessibility oriented tools
- Community outreach and social impact assessment
- Primary linguistic research

Ivy.ai   2017
NLU Research and Engineer

- Lead initiative within small startup to conduct original research and testing of NLU techniques for chatbot
- Drafted research memos and built functioning prototypes of web scrapers, natural language understanding utilities, and a graph-based semantic knowledge base

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Experienced web developer and architect, data analyst, and pipelining pro. Academic background in computational linguistics, programming language theory, cryptography, and scientific computing. Enthusiastic polyglot of natural and programming languages.

EDUCATION

Bachelors of Arts and Science - Linguistics and Computer Science

Haverford College
GPA: 3.92

TOOLS & PLATFORMS

Python, Java, Scala, C++, Node.js
HTML, CSS, JQuery, Bootstrap, Fontawesome
Django, Angular, React, Rails
PostgreSQL, MongoDB
NumPy, Pandas, Tensorflow, Theano
AWS (EC2 & S3), DigitalOcean, Heroku
Ubuntu, Windows
Git · OpenSSL · Nginx

LANGUAGES

Language	Proficiency
English	● ● ● ● ●
Dutch	● ● ● ● ○
Mandarin	● ● ● ○ ○
Russian	● ● ○ ○ ○

SKILLS

- Scientific computing
- Formal linguistics (semantic modeling, formal syntax)
- Natural language processing and modeling
- Data management and pipelining
- Backend web architecture
- Formal mathematics (number theory, computational theory, abstract algebra)
- Network security