

CONOR STUART ROE

BACKEND WEB & NLP ENGINEER

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EXPERIENCE

ProPublica 2019

Audience Analytics

- Zero to rollout on a Slack chatbot which aggregates from Google Analytics, social media, and our CMS and allows audience team members to build custom lists and graphs on the fly

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
- 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

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

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

EDUCATION

Bachelors of Arts and Science - Linguistics and Computer Science

Haverford College '20

GPA: 3.92

TOOLS & PLATFORMS

Python, Java, Scala, C++, Node.js, R, SQL

HTML, CSS, JQuery, Bootstrap, Fontawesome

Django, Angular, React, Rails, Express

PostgreSQL, MySQL, MongoDB

NumPy, Pandas, Tensorflow, Theano

AWS (EC2, ECS, S3), DigitalOcean, Heroku

Ubuntu, Windows

Git • OpenSSL • Nginx • Docker

LANGUAGES

English	● ● ● ● ●
Dutch	● ● ● ● ●
Mandarin	● ● ● ● ●
Russian	● ● ● ● ●

SKILLS

Formal linguistics

Natural language processing and modeling

Machine learning and data science

Data management and pipelining

Backend web architecture

Formal mathematics and cryptography

Network security

Programming language theory