

# CONOR STUART ROE

## BACKEND WEB & NLP ENGINEER

Mobile: +1 828 785 0136 | Telegram: @cstuartroe  
Email: conor@kyrium.io  
Web: www.conorstuartroe.com

## EXPERIENCE

### ProPublica 2018

#### 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 scientific computing. 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

HTML, CSS, JQuery, Bootstrap, Fontawesome

Django, Angular, React, Rails, Express

PostgreSQL, MongoDB

NumPy, Pandas, Tensorflow, Theano

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

Ubuntu, Windows

Git • OpenSSL • Nginx

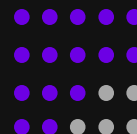
## LANGUAGES

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