

CONOR STUART ROE

CHIEF DEVELOPER & WEB ARCHITECT

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

EXPERIENCE

The Vanguard Group 2018

Automated Telephony & Contact Analytics

- Refactored predictive analytics scripting for calling and mail
- Created fully custom VXML parser and compiler as part of a standalone internal-use testing platform for telephony services, on a JSP framework
- Piloted use of MEAN stack for next generation application development

Haverford Digital Scholarship 2017-Present

Developer on the Ticha Project

- Lead 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 within startup company of original corporate research into tools and methods for cutting-edge chatbot technology
- Drafted research memos and built functioning prototypes of web scrapers, natural language understanding utilities, a graph-based semantic knowledge base, and other internal-use tools
- Partnered with university administration offices to help students access financial aid and reduce summer melt
- Partnered with NIH to provide chat-based medical assistance to chronic diabetes patients

EDUCATION

Bachelors of Arts and Science -
Linguistics and Computer Science

Haverford College

Passionate research scientist with original work in the fields of computational and descriptive linguistics. Hobbyist mathematician and cryptographer. Experienced web service architect, data management expert, and pipelining pro. Unparalleled critical and abstract thinker. The next indispensable member of your team.

TOOLS & PLATFORMS

Python, Java, C++, JS, Haskell

HTML, CSS, JQuery, Bootstrap, Fontawesome

Node.js, Express.js, Angular, MongoDB

Django

PostgreSQL

NumPy, Pandas, Tensorflow, Theano

AWS (EC2 & S3), DigitalOcean, Heroku

Git

OpenSSL

Ubuntu, Windows

Nginx

LANGUAGES

English ●●●●●●

Dutch ●●●●●●

Mandarin ●●●●●●

Spanish ●●●●●●

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
- Research and intelligence analysis