CONOR STUART-ROE

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English native • Mandarin HSK4 • Dutch B1 natural languages:

computer languages: Python • Java • C++ • JS/jQuery • HTML • CSS/Bootstrap • various XML (TEI, XSLT, VXML) other technologies: NLTK - NumPy - pandas - DigitalOcean - AWS - Nginx - Git - Excel - SQLite - MongoDB -

Django • JSP • Angular • Node.js • Express • Ubuntu

TECHNICAL STRENGTHS

Mathematical Modeling and Deep Learning

A firm grounding in linear algebra, statistics, calculus, and discrete math, and practical experience using it in techniques such as latent semantic analysis, principal component analysis, entropy modeling, RSA encryption, and deep learning.

Natural Language Analysis and Processing

I have award-winning technical skills in formal linguistic analysis, and experience applying in contexts as diverse as descriptive linguistics research, corpus management, and deep learning language modeling.

Full Stack Web Development

I have extensive experience building full web applications with MEAN, JSP Model 2, and Django architecture. I have typically used AWS or DigitalOcean products for hosting and cloud storage.

EXPERIENCE

Automated Telephony at The Vanguard Group

Philadelphia, PA

May-Aug 2018

Jan 2017-present

When you call Vanquard's client phone number, an automated system will validate your identity, perform basic self-service tasks, and/or route you to an appropriate human agent. I'm helping with NLU components and developing automated testing for this rule-based application, using Java, VXML, and JSP, and interfacing with a variety of third-party services.

Full Stack Developer for Ticha at Haverford Digital Scholarship Philadelphia, PA Ticha is an online dictionary and primary source database for the Zapotec language, built with Django on a

Droplet. In collaboration with student researchers, I've built new features such as TEI parsers, reader interfaces, and automated PDF generation, using a combination of Python and front-end web tools.

Natural Language Understanding Engineer at Ivy.ai

Durham, NC

Jun-Aug 2017

For Ivy's chatbot service, I conducted research and testing of natural language understanding software capable of reading the web to build a semi-unstructured ontology and answer questions from students and other university website visitors. I also created a new company site from scratch in three weeks with WordPress.

EDUCATION

Haverford College, B.S. & B.A. Philadelphia, PA 2016-2020

GPA: 3.95

degrees in progress: Linguistics, Computer Science; minor: Mathematics

North Carolina School of Science and Mathematics, high school Durham, NC 2013-2015

Weighted GPA: 5.37 Composite SAT: 2390

AWARDS AND RECOGNITIONS

Silver Medalist, International Olympiad in Linguistics

Blagoevgrad, Bulgaria Jul 2015

I performed second among over 3000 North American competitors to qualify. My team received first prize at IOL.