

CONOR STUART-ROE

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natural languages: English native • Mandarin HSK4 • Dutch B1

computer languages: Python • Java • JS/jQuery • HTML • CSS/Bootstrap • PHP • various XML (TEI, XSLT, SSML)

other technologies: NLTK • NumPy • pandas • DigitalOcean • Heroku • Django • TensorFlow • Git • Excel

TECHNICAL STRENGTHS

Python Development

I have very extensive professional experience with Python, using it to build backend web architecture, corpus management software, and artificial intelligence algorithms. I am closely familiar with NLP and analysis libraries such as NumPy, pandas, TensorFlow, and NLTK.

Mathematical Modeling and Deep Learning

A firm grounding in linear algebra, statistics, and discrete math, and practical experience using it in applications such as latent semantic analysis, principal component analysis, entropy modeling, language modeling, RSA encryption, and neural network architecture.

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 built websites from both a higher level through WordPress as well as backend architecture with Django, AWS, DigitalOcean, Heroku, SQLite.

EXPERIENCE

Full Stack Developer for Ticha at Haverford Digital Scholarship Philadelphia, PA Jan 2017-present
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.

Artificial Intelligence Developer 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.

Feature Writer and Quantitative Analytics Developer at Dynalect Analytics Jan-Jul 2017
For a finance blog that I co-created, I built a professional and responsive site with WordPress, wrote weekly pieces and monthly long-form industry analyses, and created predictive machine learning models of financial markets.

Creator and teacher of three linguistics seminars at NCSSM Durham, NC 2014-2015
Teaching Assistant for Mandarin and mathematics at NCSSM

EDUCATION

Haverford College, B.S. & B.A. Philadelphia, PA 2016-2020
GPA: 3.95
degrees in progress: Linguistics, Computer Science

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.