Andrew Theis

Computer Programmer

Delivering creative software solutions with exceptional attention to detail

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WORK EXPERIENCE

Research Software Engineer
Institute for Health Metrics and Evaluation ⧉

12/2018 – Present   *Seattle, WA*
Global health research institute at the University of Washington

Achievements/Tasks

- Designed and implemented novel research software, leading to new grant opportunities and scientific publication.
- Led engineering teams in implementing type annotation and static type checking across Python 3 libraries, increasing readability, reliability, and improving efficiency.
- Conducted trainings on institute software.
- Managed epics for new team members, setting priorities, and reviewing pull requests.

Data Analyst
Institute for Health Metrics and Evaluation

12/2016 – 11/2018   *Seattle, WA*

Achievements/Tasks

- Decreased computation time by 67% for research software by redesigning the distributed computing strategy and increasing I/O efficiency.
- Developed an API to allow flexible and customizable analysis of key research area, processing and vetting database requests to ensure valid state.
- Designed and created web applications for research teams to validate their results and connect with their data.
- Managed institute software via continuous integration services, building, tagging, and deploying updates and maintaining test suites.

EDUCATION

Continuing Education: Computer Science
University of Washington

09/2017 – 03/2019   *Seattle, WA*

Python Web Development Boot Camp
PDX Code Guild

03/2016 – 07/2016   *Portland, OR*

Achievements

- Graduated with Distinction

B.A. Studio Art
Willamette University

09/2006 – 05/2011   *Salem, OR*

SKILLS

Object Oriented Programming

Distributed Computing   SGE Cluster

Version Control   Git   Software Debugging

Test Driven Development   Pytest   JUnit

Database Development   MySQL   ORM   ETL

API Design   Continuous Integration   Jenkins

Full-Stack Web Development   Django   Flask

jQuery   Agile Software Development   Docker

LANGUAGES

Python
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Java
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JavaScript
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SQL
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Ruby
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PHP
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PERSONAL PROJECTS

Cairo Pentagon Project (2015 – Present)

3D Sort (09/2016 – 10/2016)

SeekHue (06/2016 – 08/2016)

CERTIFICATES

EdX – DAT 210X Python for Data Science (09/2016 – 10/2016)