

Kate Tyrol
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SUMMARY:

Returning to software development after 10 years in academia as a qualitative researcher. Technical strengths: Java, SQL, and Python. I am equally passionate about the kinds of puzzle-solving involved both in producing algorithms and in understanding other people's perspectives and experiences.

EDUCATION:

- 2018 Ph.D., Science and Technology Studies
Rensselaer Polytechnic Institute
- 2014 M.S., Cognitive Science
Rensselaer Polytechnic Institute
- 2010 B.S., Computer Science, *magna cum laude*
University of Southern Maine

SKILLS:

Programming Languages

Java, Python, T-SQL, VB.NET, C++, C, C#, VBA, R

Quantitative Research / Other Technical Skills

SPSS, HTML / CSS / JavaScript, Mechanical Turk platform, Unity, Google Maps API, Kinect for Windows, MS SQL Server

Academic

program administration, curriculum development, supervision of student workers / researchers, discussion facilitation, IRB proposal, grant-writing, interview, ethnography, textual analysis, archival research

ACADEMIC EXPERIENCE AND SCHOLARSHIP:

2018–22 Lecturer in STS and Cyberpsychology, New Jersey Institute of Technology (current):

Responsibilities: Designed and taught humanities and social science courses; coordinated the creation of a cyberpsychology program

2013–18 Doctoral Dissertation Research, Rensselaer Polytechnic Institute

Qualitative research into weight loss surgery

2013–16 Graduate Teaching Assistantships, RPI

2013–14 Master's Thesis Research, RPI

Skills Acquired: Mechanical Turk, MakeHuman, front-end web development, SPSS, R

SOFTWARE DEVELOPMENT:

2012–15 Graduate Research Assistantships

RPI Departments of Cognitive Science and Communication & Media

- Developed augmented reality environments and websites
- Supported research on foreign language learning by developing virtual environments, chat platforms, and speech recognition
- Collaborated with stakeholders on design and implementation
- Supervised undergraduate workers

Skills: C#, Unity, Java, Android development, front-end web development, Google Maps API, Kinect for Windows SDK

2009–12 Programmer Analyst

American Health IT (formerly Maine MSO), Sarasota, Florida

Responsibilities:

- Create SSRS reports and .NET applications in response to needs defined by the clinical team.
- Investigate and prototype new technologies
- Support customers in customizing / optimizing in-house software.

Skills Acquired: .NET, SSRS, C#, SQL

2007–09 Database Analyst

Strategic Diagnostics, Newark, Delaware

Responsibilities:

- Work closely with staff to define their job processes and needs
- Maintain and develop Access and SQL Server databases
- Maintain and upgrade the SQL server, file servers and workstations

Skills Acquired: VBA, MS Access, MS SQL Server, Basic use of Active Directory

2004–07 Application Analyst

Spurwink, Portland, Maine

Responsibilities:

- Worked with clinical and other staff to define software needs
- Modified existing content and developed new components
- Provided software support to staff as needed

Skills Acquired: CMHC/MIS, UNIX (AIX)

2002–04 Information Systems Administrator

Crossroads For Women, Portland, Maine

Responsibilities:

- Maintained a thirty-user network over four locations
- Developed and maintained FileMaker Pro database, including EHR and billing
- Trained staff in use of the database and their workstations

Skills Acquired: FileMaker Pro, Apple networking, user training