Kate Tyrol

katetyrol@gmail.com
katetyrol.com
207.449.8720

SUMMARY:

Returning to software development after time in academia as an instructor and qualitative researcher. Technical strengths: Java, SQL, and C#. I am equally passionate about the kinds of puzzle-solving involved both in producing algorithms and in understanding others' perspectives and experiences.

SKILLS:

Java	5 yoe
C#	4 yoe
SQL	3 yoe
.NET	3 yoe
HTML / CSS / JavaScript	4 yoe
VBA	2 yoe
R	1 yoe
SPSS	3 yoe
Unity	1 yoe

EDUCATION:

2010	B.S., Computer Science (3.68), University of Southern Maine
2014	M.S., Cognitive Science (4.0), Rensselaer Polytechnic Institute
2018	Ph.D., Science and Technology Studies (3.95), Rensselaer Polytechnic Institute

TECHNICAL EXPERIENCE:

2018–24 Personal Projects (ongoing)

- Developed a tool for academic research into reddit's /r/Place
- Collaborated on a team of three to develop a web app game to guess song lyrics
- Designed and began implementing a homewbrew citation manager

Skills: Python (inc Pandas), Git, AWS

2012–15 Software Development 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 requirements-gathering, design, and implementation
- Supervised undergraduate workers

Skills: C#, Unity, Java, Android development, HTML / JavaScript / CSS, Google Maps API, Kinect for Windows SDK

2009–12 Programmer Analyst
American Health IT (formerly Maine MSO), Sarasota, Florida

- Created SSRS reports and .NET applications in response to needs defined by the clinical team
- Designed internal data warehouse and ETL processes to extract from multiple commercial EMRs for custom reporting
- Supported customers in customizing / optimizing in-house software

Skills: .NET, SSRS, C#, SQL

2007–09 Database Analyst
Strategic Diagnostics, Newark, Delaware

- Worked closely with staff to define their job processes and needs
- Maintained and developed Access and SQL Server databases
- Maintained and upgraded the SQL server, fileservers and workstations

Skills: VBA, MS Access, MS SQL Server, Active Directory

2004–07 Application Analyst
Spurwink, Portland, Maine
Define software needs, EHR development, tech software support to staff as needed

Skills: CMHC/MIS, UNIX (AIX)

2002–04 Information Systems Administrator
Crossroads (formerly Crossroads For Women), Portland, Maine
30-user network over 4 locations, end user training, updated and expanded company database

Skills: FileMaker Pro, Apple networking, user training

ACADEMIC EXPERIENCE:

2023–24 Lecturer in STS, *Rensselear Polytechnic Institute*
2018–23 Lecturer in STS and Cyberpsychology, *New Jersey Institute of Technology*
Designed and taught 10 different courses, approximately 1430 undergraduate students; student recruitment, curriculum planning, student advising
Skills: program administration, curriculum development, classroom management, rapid turnaround assessment and evaluation

2013–18 Doctoral Dissertation Research, *Rensselaer Polytechnic Institute*
Qualitative research into weight loss surgery
Skills: ethnography, discourse analysis, archival research, interviewing, LaTeX, Audacity

2013–16 Graduate Teaching Assistantships, *Rensselaer Polytechnic Institute*

2013–14 Master's Thesis Research, *Rensselaer Polytechnic Institute*
Quantitative research into visual perception of the human figure
Skills: Mechanical Turk, MakeHuman, HTML / JavaScript / CSS, SPSS, R