

Emily TerAvest: Technical Project Manager

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SUMMARY

I am a Technical Project Manager proficient in Stakeholder Management, Agile Methodologies, and Jira. I have ten years of experience in software development and technical sales, which allowed me to develop my team collaboration, database management, and customer management skills. I also have a strong background in bioinformatics.

TECHNICAL SKILLS

Project Management: Project Documentation, Stakeholder Management, Managing Sponsor Concerns, Systems Development Life Cycle, Project Life Cycle

Management Tools: Agile Methodologies, Predictive Methodologies, Jira, Scrum workflow, Slack

EXPERIENCE

Technical Project Management Training

Thinkful | Online | 2022-2022

- Learned and practiced project and people management skills including project planning, budgeting, scheduling, resource allocation, mediation, and motivation
- Exposed to common project management tools including JIRA

Accounts Receivable Lead

HiTech Appliance | Louisville, CO | 2021-present

- Implemented a data retention system for employee timecard data, so questions about historical hours worked can be answered
- Reduced duplicate parts ordering, saving the company an average of \$2,000 a month, by designing and instituting an order tracking system for service parts
- Developed a system to calculate sales commissions, eliminating manual work and allowing for retention of historical data

Volunteer Project Manager

Just One Penny | Boulder, CO | 2020-2021

- Managed a team of over 20 remote developers to create MVP
- Fostered remote team building using Slack, and JIRA
- Mentored junior team members

Professional Research Assistant

Knight Lab, University Of Colorado | Boulder, CO | 2013-2014

- Contributed to participant-facing infrastructure development for the American Gut Project
- Maintained the backend of the QIIME web-app
- Co-architected and co-developed the backend and frontend of Qiita
- Automated workflows to enable increased researcher productivity

Bioinformatics Software Engineer

Codexis | Redwood City, CA | 2011-2012

- Developed custom plug-ins to implement a protein evolution workflow with the Ion Torrent PGM
- Implemented custom NGS data processing workflows on the Galaxy Platform, including read mapping with BWA, samtools, and BEDtools for both Illumina and Ion Torrent PGM data
- Installed and supported a custom instance of IGV to allow sequence read viewing of proprietary organisms.
- Integrated proprietary genomic data and annotation information into Genedata Selector
- Acted as liaison between Codexis and Genedata for development and technical support of Genedata Selector, Analyst, and Refiner MS
- Managed local instances of both Galaxy and Genedata

Inside and Outside Technical Sales

IBM | San Jose, CA | 2006-2010

- Served as the technical leader in the sales process of technical business solutions involving IBM hardware
- Designed custom server parts to meet specific needs of a customer

Software Engineer

IBM | Rochester, MN | 2002-2006

- Component owner for message and data passing queues for OS/400
- Used C/C++ and Object-Oriented programming practices

EDUCATION

Master of Science, Computer Science

San Jose State University | San Jose, CA | 2009 - 2011

- Specialization in Bioinformatics

Bachelor of Science, Computer Science

The Ohio State University | Columbus, OH | 1999 - 2003

PUBLICATIONS AND PATENTS

- **Howe, E.**, Thornton, M., Weide B. (2004). Components-First Approaches to CS1/CS2: Principles and Practice. Proceedings of the 35th SIGCSE Technical Symposium on Computer Science Education, ACM Press, 2004, 291-295.
- Paging memory contents between a plurality of compute nodes in a parallel computer. Patent No. 7,979,660 Awarded 7/12/2011
- Processing data access requests among a plurality of compute nodes. Patent No. 7,895,260 Awarded 2/22/2011
- Wittkop T, **TerAvest E**, Evani US, Fleisch KM, Berman AE, Powell C, Shah NH, Mooney SD. STOP using just GO: a multi-ontology hypothesis generation tool for high throughput experimentation. BMC Bioinformatics. 2013;14:53
- McDonald D, Hyde E, Debelius JW, Morton JT, Gonzalez A, Ackerman G. **Et al.** (2018) American Gut: an open platform for citizen science microbiome research. mSystems. 3(3), e00031-18