# Vijaykumar 'Jay' Palat

jay@palat.net | 412-254-4678| https://www.linkedin.com/in/jaypalat/

Engineering Leadership  - I lead teams to deliver quality software on time.

**Software Engineer - *Software Engineering Institute* (12/2018 - Present)**

Engineering Lead for multiple customer work plans and research projects.

- Delivered Machine Learning system from 6 months behind to on time delivery by improving software design, adding automation and applying software engineering best practices including code reviews and continuous integration.
- Built novel platform for curating audio content for training an ml system on perceived emotional content including audio ingestion, speaker segmentation, audio segmentation, labelling, and visual analytics of the collected content using python and Mechanical Turk.
- Used devops and cloud technology to decrease delivery time of results for ML researchers, from days to hours, resulting in improved team throughput and delivery of results to customers.
- Provided engineering and devops to multiple research programs including Inverse Reinforcement Learning, Adversarial Machine Learning, and Quantum Computing.

**Owner - *QOE Labs* (8/2016 - Present)**

Consultant helping teams improve their engineering capabilities with technical / architectural leadership, best practice education and management augmentation.

- Rebuilt engineering team for a design practice, improving process and hiring new engineering leadership.
- Architected and implemented a mobile platform for mental health assessments deployed to clinics for evaluation.  The platform reduced evaluation from weeks to minutes and increased the assessments from 10 patients per month to 10s of patients per day.
- Migration of test environment from a single hosted machine to a cloud based Azure workflow, improving throughput and test reproducibility.

**Sr Director of Data & Operations | Director of Engineering - *Rhiza* (8/2016 - 8/2018)**

Provided technical leadership to mature a prototype platform to a product that was sold to Nielsen.

- Moved delivery from ad hoc releases to scheduled, predictable releases.
- Introduced continuous deployment of qa environments to increase delivery cadence, reduce time to defect discovery/correction and qa wait time.
- Reduced production deployments time by 40%
- Interim Product Manager, developed initial roadmap and PM hiring plan.
- Developed internal tooling to increase operational insight and improve operational workflows using Go, Elasticsearch and python.
- Improved product quality with code reviews, git workflows
- Managed a diverse set of teams including Software Engineers, Ops, Data Engineers, Quality Assurance and Support.

**Software Engineering Lead - *UPMC Technology Development Center* (11/2011-8/2016)**
**Mobile and Infrastructure Lead - *Celerity Innovation* (2/2011 - 11/2011)**
**Sr. Software Architect/ Systems Technology Manager - *ModCloth* (5/2010-2/2011)**
**Senior Software Engineer - *IBM* (08/2000 - 5/2010)**
**Systems Engineer - *H2 Design Group* (05/1998 - 07/2000)**

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**Education**
Carnegie Mellon University - Master Information Technology - 2004
University of Pittsburgh - Bachelors Computer Science -  1999

**Patent**
Vijaykumar Palat and Regina Joyce (8,255,493) "Automated Dynamic Portlet Rendering"

**Publications & Presentations**
D.J. Hartman, et All,  POCKET PATHOLOGIST: A MOBILE APPLICATION FOR RAPID DIAGNOSTIC SURGICAL PATHOLOGY CONSULTATION
Palat, Jay. Getting Started With Vagrant, Linux Journal August 2012.
Tahler, Evan; Lu, Allen; Palat, Vijaykumar. CMU: Show + Tell : ModCloth

**University of Pittsburgh - Pittsburgh, PA :**                              **Jan 2014 - May 2014**
**Visiting Lecturer**
INFSCI 1073: Application Development for Mobile Development

**Volunteer / Community**
Kentucky Avenue School Tech Committee : 2013 - Present
President Kentucky Avenue School Board of Trustees : 2018 - 2020
Steel City CodeFest Judge 2016