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| Julie Pitt  <http://yakticus.github.io/> Summary WHAT is usually more significant than HOW. When building something new, I often use the "what" to shine a light on what's extraneous, overly complex or misaligned with the goal.  **The tl;dr**: 15 years combined experience building teams, scalable APIs and distributed systems; most recently co-founded startup to bring autonomous agents with "common sense" intelligence into the world; built streaming service at Netflix during initial device and international roll-outs; international speaker; Scala, Node.js, AWS and many more ExperienceOrder of Magnitude Labs – *Co-founder* March 2014 - Present  **What**: Introduce autonomous agents that learn "common sense" to problems that today’s smartest machines can’t solve  **How**:   * After a period of bootstrapping, secured seed funding from a major VC * Through research and experimentation, uncovered the limits of today's deep learning technologies in solving "common sense" problems * Developed novel IP enabling autonomous agents to learn and act in messy and dynamic environments despite ambiguity  Lyve Minds – *Senior Engineering Manager* December 2012 - February 2014  **What**: Bring forgotten memories to life and ensure that new ones are safe and accessible  **How**:   * Hired and led service engineering team, with emphasis on client integration, availability, fault tolerance and scale * Built AWS-deployed services and protocols in Scala * Standardized protocol and server stack to minimize design, build and release friction  StumbleUpon – *Tech lead/manager, recommendations infrastructure* August 2012 - December 2012  **What**: Introduce people to new ideas across the web that extend beyond their immediate social bubbles  **How**:   * Hired a small engineering team to re-architect StumbleUpon's recommendations infrastructure in under 3 months * Built an initial proof-of-concept prototype in Scala  Netflix – *Manager, streaming server engineering* July 2010 - August 2012  **What**: Connect people worldwide to movies they love.  **How**:   * Managed a medium-sized team of engineers responsible for developing the application tier that drives Netflix streaming playback * Launched streaming service in Canada, Latin America and the UK * Rapid innovation on PS3, XBox, Wii, AppleTV, Android and iOS while delivering quality service for hundreds of consumer electronics device models * Scaled the team from 2 to 8 engineers as server traffic increased from 500 million to 3.5 billion requests per day * Led a cross-functional effort to re-architect credentials on streaming devices  Netflix – *Senior Software Engineer* December 2008 - July 2010  **What**: Connect people to movies they love.  **How**:   * Developed scalable Java server application to support explosive growth in Netflix streaming volume and device breadth * Built server functionality for 1st & 2nd generation streaming app on the PS3 * Integrated server DRM & protocol enhancements for first ever Wii console streaming app * Introduced server delivery of subtitles & alternate language tracks to Netflix streaming devices * Added 1.5 years of life to infrastructure delivering customers’ viewing history  NASA Ames Research Center – *Senior Software Engineer* July 2008 - December 2008  **What**: As part of the Constellation program, bring the International Space Station up-to-date, and eventually bring humans to the Moon and to Mars.  **How**:   * Designed and developed RDF triple store persistence API in Java * Cross-functional liason between development and ontology modeling teams * Evangelized and implemented development practices on the team, including TDD, continuous integration, use of Subversion, Hudson, Maven and Artifactory  Lawrence Livermore National Laboratory – *Software Engineer, project lead* June 2001 - July 2008  **What**: Support various missions ranging from follow-on research to the Human Genome Project to Biodefense in the wake of 9/11.  **How**:   * Built Java applications to bring together disparate structured and unstructured data sources for use by scientists and analysts * Built PERL/CGI applications to process and make accessible data underpinning the Human Genome Project and beyond | San Francisco Bay Area, California  **julie@yakticus.com +1 (925) 980-2217**  **Twitter -** [@yakticus](https://twitter.com/yakticus)  **LinkedIn -** [Julie Pitt](https://www.linkedin.com/in/juliepitt/)  **github -** [yakticus](https://github.com/yakticus)  **StackOverflow -** [julie](https://stackoverflow.com/users/8217/julie) Skills **Management**  hiring, cross-functional project management, building orgs  **Functional programming**  Scala  **API design**  REST, JSON, Protobuf, XML  **Distributed systems**  AWS, EC2, Reactive paradigm, Akka, Finagle  **Web & full stack development**  Node.js, JavaScript, Scala.js  **Public speaking**  tech conferences  **Machine Learning**  probability theory, information theory, Bayesian methods, deep neural networks, linear algebra  **Past & Hobby**  Java, RDBMS, MySQL, Oracle, Arduino, Python, PERL EducationCoursera 2012-present  ***continued education in C.S.***  coursework: Functional programming in Scala; Principles of Reactive Programming; Machine Learning University of California, Davis 2005-2007  ***coursework for M.S. in Computer Science*** University of California, Davis 1999-2002  ***B.S. Applied Mathematics, minor in Computer Science*** |