Arlo J. **Purcell**

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Experience

Indeed.com *http://www.indeed.com*
SOFTWARE ENGINEER *August 2014 - Present*

- Improved job posting javascript frontend using Closure library and compiler with soy template
- Added new features, fixed bugs, and improved performance on Java/Spring/Tomcat backend. The backend also used MySQL, MongoDB, and RabbitMQ
- Implemented and supported internal tooling for other engineers
- Created internal developer environment system using bash and python scripts around docker
- Maintained and improved internal deployment management webapp using a soy template with JQuery frontend and a Java/Spring/Tomcat backend interfacing with git and Gitlab and Atlassian APIs
- Proctored and graded coding exams for interview candidates
- Built a new system to aggregate data on code changes and then make automated merge decisions for continuous delivery
- Designed and implemented fast tool for querying, filtering, and caching production and QA logs
- Iteratively built and validated a new, caregiving job marketplace application as part of an internal incubator program
- Lead a team building a tool to build and execute data pipelines to convert application logs into queryable indices
- Wrote a custom expression language for processing data to build into indices

IPsoft *http://www.ipsoft.com*
RESEARCH AND DEVELOPMENT ENGINEER *February 2013 - Ausust 2014*

- Led a geographically separated team of developers in the creation of a new artificial intelligence system for human interaction, supported by relational and graph databases
- Estimated and assigned new features and bugs to my team
- Managed the project using agile methodologies
- Designed and implemented a first order logic engine for interpreting and then acting upon natural language
- Conceived and realized the machine learning system for dynamically creating and executing new business processes
- Fine tuned module for understanding, analyzing, and storing natural language, then generating natural language responses
- Demonstrated and explained the functionality and design of the system to high level executives at enterprise clients

Google *https://www.google.com*
SOFTWARE ENGINEER *February 2012 - February 2013*

- Developed library for deploying video ads in client applications
- Fixed bugs in Flash, Javascript, iOS, and Android versions of the library
- Designed and implemented an original new version of the Android library
- Created a new version of the library for Samsung smart TV
- Maintained and expanded unit and integration tests
- Managed public releases of the library
- Meticulously documented all code changes and new additions

Micros Retail Systems *http://www.microsnyc.com*
ASSOCIATE APPLICATIONS ENGINEER *August 2010 - March 2012*

- Developed Java point of sale application
- Developed and deployed iOS point of sale application
- Designed and implemented customer specific modifications
- Interfaced with customers to determine requirements for modifications and configurations
- Worked with quality assurance to resolve feedbacks

TerraCycle *https://www.terracycle.com*
INTERN *June 2009 - August 2009*

- Constructed database using PHP and MySQL
- Managed variety of customer service information
- Interfaced with customers and solved customer problems

Oberlin College *https://home.oberlin.edu*
LAB TEACHING ASSISTANT *September 2008 - December 2009*

- Assisted students with Computer Science projects
- Explained concepts to students

Environment America

Field Manager

June 2008 - August 2008

- Canvassed areas of the greater Philadelphia area for environmental issues
- Solicited for and collected donations
- Trained new canvassers
- Coordinated areas for others to canvas
- Lobbied members of the Pennsylvania government

Education

Oberlin College

3.67 GPA

Bachelor of Arts in Computer Science

September 2007 - May 2010

Skills

Java

Experienced

Python

Experienced

Rust

Intermediate

Scala

Intermediate

Javascript

Intermediate

Web Development

Experienced

HTML   CSS   WebAssembly