Arlo J. Purcell

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Skills

Python	Java	Rust
Scala	Elixir	Kafka
Javascript	React	HTML
Web Assembly		

Work Experience

Royal Markets — Staff Software Engineer — August 2022-December 2022

(Laid off due to budget cuts)
https://royal.io

- Created generic blockchain meta transaction flow for handling various types of blockchain transactions
- Worked on Elixir Graph QL interfaces for payments backend
- Integrated with 3rd party vendors to on ramp and off ramp funds to and from the platform
- Built GRPC endpoints to communicate between microservices

Decodable — Staff Software Engineer — July 2021-August 2022

https://decodable.co

- Implemented live streaming data preview on Apache Flink
- Built system to deploy software across multi-tenant kubernetes cluster
- Created system to automatedly access stream metadata in Decodable environment
- Helped to build core streaming data platform

Indeed — Staff Software Engineer — August 2014-July 2021

https://indeed.com

- 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
- Wrote problems, 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
- Implemented fraud prevention and mitigation measures in candidate tracking system

Amelia (Formerly IPSoft) | R&D Engineer | February 2013-August 2014

https://amelia.ai

- 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
- 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 | Software Engineer | February 2012-February 2013

https://google.com

- 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 **Associate Software Engineer** **September 2010-February 2012**

https://www.oracle.com/industries/micros/

- 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 issues

Education

Oberlin College	Bachelor of Arts in Computer Science	**GPA:** 3.67	**2007 - 2010**