

Arlo J. Purcell

Senior Software Engineer at Iterative Health

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in [arlopurcell \(https://www.linkedin.com/in/arlopurcell/\)](https://www.linkedin.com/in/arlopurcell/) GitHub [arlopurcell \(https://github.com/arlopurcell\)](https://github.com/arlopurcell)

I have a wide variety of experience and interest within various fields of computing, with experience from point of sale software to machine learning to giant internet companies. I am looking to expand my horizons, solve interesting problems, and build great things.

SKILLS

Python

Java

Bash

React

AWS

Flink

gRPC

Rust

Kotlin

JavaScript

SQL

Kubernetes

Kafka

GraphQL

Elixir

Scala

TypeScript

Terraform

Linux

Git

WORK EXPERIENCE

✉ <https://iterative.health/>

Iterative Health Senior Software Engineer Jan 2023 - Current

Created a system for on-demand decomposition of video frames
Supported the machine learning team by creating new tools
Made improvements to ML pipeline as needed for new models and use cases
Helped standardize the ML model life cycle using containerization

✉ <https://royal.io/>

Royal.io Staff Software Engineer Aug 2022 - Dec 2022

Created generic meta transaction flow for handling various types of blockchain transactions
Worked on GraphQL 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

✉ <https://decodable.co/>

Decodable Staff Software Engineer Jul 2021 - Jul 2022

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

✉ <https://indeed.com/>

Indeed.com Staff Software Engineer Aug 2014 - Jul 2021

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

 <https://amelia.ai/>

 IPsoft  Research & Development Engineer  Feb 2013 - Aug 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

 <https://google.com/>

 Google  Software Engineer  Feb 2012 - Feb 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

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

 Micros Retail  Associate Applications Engineer  Aug 2010 - Mar 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

EDUCATION

2007 - 2010

Bachelor Computer Science, Physics at Oberlin College