# Pururva Lakkad

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Work Experience

Stark and Wayne LLC ・ Cloud Engineer   Sep 2021 – Jan 2023
- Contributed to and maintained SHIELD, an enterprise cloud backup & restore solution written in Golang
- Added retry handling to SHIELD, which enables users to have customized automated backup retry
- Developed an OAuth2 integration with okta for SHIELD, with user-group mappings schema and OIDC implementation
- Built and debugged software systems on containers and VMs with GCP, AWS, Kubernetes and Cloud Foundry.
- Contributed to and maintained the open-source deployment kits and bosh-releases including the cf-kit, bosh-kit, shield-kit and the pipelines with Concourse CI/CD.
- Helped build and test ops-scripts supplementing the Open(source) Cloud Foundry Platform reference architecture.
- Volunteered as a mentor for UBHacking, SW Internship program, and as a Judge for UB CSE Demo Days.

SitusAMC ・ Software Developer Analyst   Aug 2020 – Sep 2021
- Designed, developed, documented, tested, and debugged new and existing software systems, applications and/or components for market sale or proprietary software for internal use.
- Used various programming languages and frameworks including .NET, C#, JavaScript, T-SQL, AWS, React, Azure.
- Served as technical expert on development projects, participated in full development life cycle to build reports, microservices, and a dashboard for loan mortgage analysis.

Stark and Wayne LLC ・ Cloud Engineer Intern   May 2019 - Aug 2019
- Added a plugin for etcd in SHIELD and Phalanx - a bosh-release for testing SHIELD's full-stack functionality
- Designed a data serialization format in Golang for storing key values of etcd archives which allowed storage and management of deployment information in an efficient manner

University at Buffalo ・ Undergraduate Teaching Assistant
- Courses: Operating Systems (C), Systems Programming (C), Intro to CS I (Python), Intro to CSII (Scala), Internet-class
- Designed homeworks/projects, performed grading, and instructed students both in group settings and 1-on-1

Technical Skills

Languages | Golang, Python, .NET, React, C#, C, C++, SQL, HTML, JavaScript, Scala, Java
Tools | Cloud Foundry, Bosh, AWS, GCP, Unix, Git, k8s, Docker, Concourse CI/CD, AWS, Terraform, Hashicorp Vault

Software Projects   (*more at github.com/pururval*)

ParkAtTheMoon | Python
- Built an app with a team to find empty parking spots on campus using Raspberry Pi and OpenCV ML model

ShowerDuino | C | UB Hacking project
- Coded an arduino101 in C to rotate a stepper motor used to turn on a shower handle

CrowdMap | HTML, JavaScript | DandyHacks
- Built a webapp with Google Maps API and socket.io to show live heat maps of crowd density in dining hall

GroupMeBot | Python, Heroku
- Made a bot that responds to a query "who's on duty" which parsed and collected data from Google Calendar

Education

University at Buffalo   Bachelors of Science in Computer Science   Jun 2020
   Relevant Courses Programming Languages, Computer Organization, Algorithms, Data Structures, OS, Machine Learning, Computer Security, Infrastructure Operations, Distributed Systems, Networking Concepts