# James Allender

## Software Engineer

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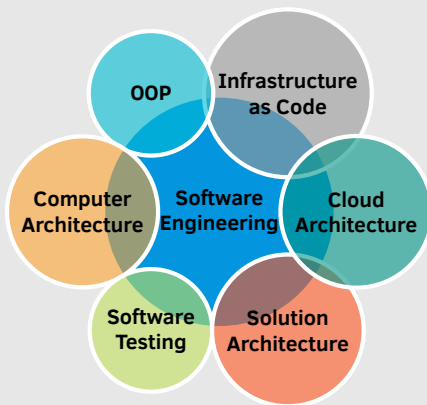✉ james.allender@comcast.net

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## Skills

**Overview**



**Programming**

*Basic* ⟶ *Proficient*

Python • Java • SQL • C

Bash • PHP

JS • R • LaTeX

### Tech Skills

- **Database:** Postgres, MySQL, SQLite, DB Design, DB Admin
- **AWS:** EC2, S3, Redshift, Lambda, IAM, Roles, Policies
- **Linux:** Software Deployment, Admin
- **Version Control:** GitHub, Subversion, Branch Methodology, Repo/Org Managment
- **Agile:** Scrum, Dev Cycle, UML
- **Virtualization:** Deploy / Provisioning
- **Mgmt Soft:** Pivotal, Slack, Git Projects
- **IDE's:** Eclipse, PyCharm, WebStorm

# Experience

**June 2018 - Present** — **Software Developer I** — Utilimarc, St. Luis Park MN

- Developed fault tolerant ETL software suite in Python which is used in production to ingest data from clients using SQL, Luigi, SFTP, Lambda, EC2, S3, and Redshift.
- Developed environment management tools to protect and separate AWS prod and dev resource using python and AWS tools.
- Migrated AWS resources into infrastructure as code Terraform as well as designed AWS solutions using AWS (console, api) and Terraform.
- Managed AWS infrastructure and AWS administration for resources including Redshift, IAM (users, policies, poles), S3, EC2, Secrets, KMS, Lambda, Cloud Watch, etc.
- Built data duplication and distribution tools to maintain synchronization of data between prod and dev environments in AWS using python, lambda, and other AWS tools.
- Performed Linux system administration and system development for productions server including SFTP servers (key and password), ETL server, and development server.
- Migrated servers and services into Chef to manage and deploy services for production resources including ELT dedicated machine, SFTP servers, and dev machines.
- Developed dev environment management tools to protect AWS production resource, build dev environments, duplicate data to dev environment, and manage access to resources using Python and AWS IAM, S3, EC2, and Lambda tools.
- Managed AWS infrastructure and AWS administration for Redshift, IAM, Policies, Roles, S3, EC2, Secrets, KMS, Lambda, Cloud Watch, etc.
- Worked on Linux system administration and system development for 4 productions server including key auth and password auth SFTP servers, and both main production environment servers; as well as worked on Chef template design for sftp servers, dev machines, and prod environment machines that are all currently being used in production.

**Sep 2017 - Dec 2019** — **Student** — University of St. Thomas, MN

- Huffman File Compression Program Development
  Developed a Java program that uses Huffman encoding to compress and inflate files specified by the user using trees, priority queues, hash maps, and polymorphism in a recursive and iterative approach.
- PLACE Application Developmen
  Developed a web app using the scrum methodology through the Sustainable Communities Partnership program to encourage PLACE residents to save energy through reporting energy consumption to residents, implemented using PHP, MySQL, HTML, Azure, and WordPress.
- Multi-Threaded Program Development
  Developed sequential and multi-threaded version of a Java program that searches through and enumerates a file system for searching and file statistics using threads, hash maps, and nested classes.

# Education

**2017 - 2019** **B.S., Computer Science** (GPA: 3.73) — University of St. Thomas, MN

**2015 - 2017** **A.S., Computer Science** — Century College, MN