

# Howie Benefiel

github://howinator  
blog@howinator.io

## EDUCATION

### UT - AUSTIN

MEng in Software Engineering  
May 2019 | Austin, TX

### UT - AUSTIN

BS in Chemical Engineering  
December 2014 | Austin, TX

## OSS CONTRIBUTIONS

cPython  
Kubernetes  
Ansible

## COURSEWORK

### GRADUATE

Distributed Systems  
Data Engineering  
Algorithms & Data Structures  
Multicore Computing

### UNDERGRADUATE

Intro to Programming  
High Performance Computing

## SKILLS

### LANGUAGES

Over 5000 lines:  
Java • Typescript • Python • Ansible  
Golang • Kotlin • Fortran  
L<sup>A</sup>T<sub>E</sub>X • React • SQL

Over 1000 lines:

C • Rust • Terraform

### TECHNOLOGIES:

AWS (all major & many minor services)  
Google Cloud Platform  
Docker • Kubernetes  
PostgreSQL • Git • Unix/Linux  
Columnar DBs • Hadoop • Spark  
Jenkins • Android • Django

## ACCOMPLISHMENTS

Founder, Texans for a Better Tomorrow  
Tomorrow, Featured on The Colbert Report  
Presenter, Insights Conference, Accruent  
Presenter, Process Science and Technology Center Conference

## EXPERIENCE

### HEAP | Sr. Software Engineer

Aug 2019 - Present | SF, CA/Remote

- Re-built deploy pipeline which decreased time required for releases from 2 days to 20 minutes
- Won 2/2 hack weeks with measurable business results from both hack week projects
- Led re-design of data ingestion pipeline which greatly expanded possibilities for product development

### CRATEJOY | Sr. Software/Site Reliability Engineer II

Feb 2018 - Present | Austin, TX

- Took over ownership and finished k8s-based build pipeline which gave each PR a new environment
- Led project to build subscription billing app on Shopify
- Spearheaded major re-factor of authentication system which materially increased conversion rate

### UNIZIN | Software Engineer/SRE - Platform

July 2017 - Feb 2018 | Austin, TX

- Led effort to design & build "big data" platform in partnership with Google
- Built Single Sign-On Service Provider which integrates with universities' SAML identity providers
- Led effort to containerize infrastructure using Docker and Kubernetes which resulted in 60x decrease in deploy time
- Worked on backend code for greenfield user-facing application
- Owned data warehouse project which has scaled seamlessly to 10 TB and thousands of co-current researchers

### ACCRUENT | Consultant I

July 2015 - Aug 2016 | Austin, TX

- Worked with health care customers to design and implement custom software solutions

## RESEARCH

### DR. ELDRIDGE'S LAB | Undergrad. Research Assistant

Jun 2013 - May 2014 | Austin, TX

I worked with Dr. Freeman and Dr. Eldridge to port Fortran 77 simulation to VBA. I then worked with Dr. Eldridge to build a novel distillation column simulation in VBA.

## PERSONAL PROJECTS

### COMPUTATIONALTHINGS.COM *NOWDEFUNCT* | Jan 2015 -

July 2016

- Scraped Reddit to build graph of subreddits based on common users
- Ran simple machine learning to suggest subreddits to people based on previous comments