CHARLIE BUSHMAN

Software Engineer

Boston, MA
+1 (781) 521-4106
ctbushman@gmail.com

charliebushman.com
github.com/Ulthran
Charlie Bushman

WHO AM I?

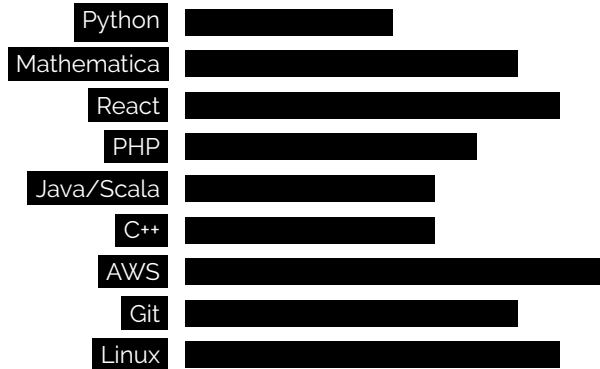5+ years of part-time Software Engineering intern, academic, and personal experience across the complete development life cycle. Handles complex project management and coordination, able to work independently or with a team and to learn on the job. An ideal job is any that uses novel technologies or frameworks and addresses problems in the realms of computation, physics, and big data.

Python
Mathematica
React
PHP
Java/Scala
C++
AWS
Git
Linux

EXPERIENCE

Oct '21 - Present

Temporary Application Developer — UPenn Dep. of Microbiology
- Helping a lab in the Perelman School of Medicine to migrate compute-intensive bioinformatics pipelines to AWS
```
AWS HPC
```

Nov '20 - Present

Co-Founder/Developer — Nocturnal Inc
- Creating a college-centric party planning app to give students a space separate from academics for organizing activities
- Building a highly scalable, fault tolerant serverless architecture with a React Native interface
```
React Native  /  AWS Amplify
```

Summers 2016 - 2020

Software Engineering Internships
HPE ('20) Participated as member of a scrum team to expand pipeline DSL, fix AWS bugs, and create schema DSL interpreter
```
Scala with Cats  /  AWS S3, Lambda, DynamoDB
```
Owl Labs ('18, '19) Worked independently to implement a unit testing framework and created some small services run on AWS
```
C++  /  Android  /  LAMP (AWS)
```
HepatoChem ('16, '17) Created a database that allows employees to save hours per order fulfillment
```
VBA  /  MS Access
```

EDUCATION

2017 – 2021

B.A. in Physics, Jun '21, GPA: 3.66 — Carleton College
- Important Classes: Thesis (Physical reservoir computing), Data Structures, Computability & Complexity, Nonlinear Optoelectronic Dynamics, Numerical Analysis, Quantum Mechanics
- Finalist in Carleton startup competition for React Native based party planning app
- 4 month study abroad at Harbin Institute of Tech (Harbin, China) with full time language pledge and independent study in network security

LANGUAGES

English - native
Chinese - conversational
Latin - rudimentary

HOBBIES

- Two year captain of DIII men's frisbee team (3rd at Nationals '18, '19)
- Two year director of standup comedy club

CERTIFICATIONS

Certified **Lightbend Scala Language - Professional** '20