# THOMAS BIDNE

## **Software Engineer**



https://tbidne.github.io



tbidne

### **ABOUT**

I am a software engineer with 10 years of professional experience. I have been writing code since I was 14, for both academic and personal reasons. I write code most days, whether it is paid work, open-source contributions, or just plain experimentation for fun.

### **EXPERIENCE**

### Senior Software Engineer

### **Platonic.Systems**

- November 2020 Present
- Implemented "smart-contracts" with a high emphasis on correctness in Haskell and Nix.
- Designed and implemented a website for data visualization and machine learning in Python.
- Improved a client's software's robustness by re-implementing fragile JavaScript APIs in Haskell.
- Worked on a high-performance full-stack Haskell web application for supply-chain analysis.

## Senior DevSecOps Engineer

### **BridgePhase**

- Full-stack web development for the Electronic Immigration System (ELIS) application, used by United States Citizenship and Immigration (USCIS) officers for handling applicant case flows.
- Technologies used included Java+Spring, Angular, React, Javascript. Typescript, Oracle/Postgres, Docker, OpenShift, and CI/CD via Jenkins.
- Maintained a Red Hat Enterprise Linux virtual machine for test-
- Participated in multiple "tiger teams" for developing cross-team solutions to shared problems.
- Managed daily production deployments on a semi-regular basis.

### Software Engineer

#### **GBL Systems**

May 2013 - February 2016

- NAS Pax River. Patuxent MD
- Worked on the C++ real-time distributed simulation Next Generation Threat System (NGTS) for the United States Navy.
- Worked on network protocols and integrating NGTS with thirdparty software. This included designing/implementing APIs and travelling to customer sites to provide support.

### **EDUCATION**

# **B.Sc.** in Computer Science University of Maryland, College Park

- **2009 2013**
- Minor: Astronomy
- College Park Scholars Graduate

#### **OPEN SOURCE**

- I have contributed to opensource via my own applications / libraries and other popular libraries, especially in the Haskell community. This includes GHC, the primary Haskell compiler.
- More information can be found on my github and website.

## **SKILLS**

