

# Philihp Busby

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San Francisco, California

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## Employment

### **Anomalie, *Lead Software Engineer***

2018-05 to Present

First fulltime engineer at Anomalie, building a site for managing inside sales of dress orders. Raised conversion signup rate from 10% to 20%.

Grew engineering team from one (myself) to 6 engineers.

Built machine learning algorithms turning discrete preferences toward photos into a multivariate preference vector, and running cosine similarity search to sort by ordinal affinity. Raised likelihood of bride liking the photo presented (versus control) from 25% to 35%.

### **Airbnb, *Software Engineer, Full-stack web and iOS***

2014-06 - 2018-04

Help center article CMS, added A/B experiment support to content and versioned translations.

Founding member of Portland engineering team.

Modified internal customer support tool to work with cohosts. Started project to separate Lantern frontend from backend, to increase performance from 6-8 second to sub-second load times.

Transitioned to mobile/iOS. Worked on Government ID and Selfie identification requirements flow.

Wrote and calibrated 4 of the 26 questions used for interviews.

### **SAS Institute, *Sales Engineer, Software Developer***

2003-07 - 2014-04

One of three sales engineers for entire US academic sales territory. 2012, hit 129% of sales target. 2013, hit 120% of sales target.

Created demo for SAS Visual Analytics using public NCES data and geocoded it on tiered levels.

Presented at 2013 Assoc. for Inst. Research, <http://support.sas.com/resources/papers/proceedings12/075-2012.pdf> SAS Global Forum 2012, <http://www.sesug.org/SESUG2013/abstract.html> CC-02 SESUG 2013.

Maintained SAS Global Forum registrant data warehouse.

Part of on-call rotation for entire company's invoicing and reporting data warehouse.

Helped write internal healthcare primary care signup website in Struts.

Supported advertising campaign OLAP system before native OLAP cubes were a thing.

Wrote a native HTTP/1.0 client in SAS/SCL because native SAS didn't support HTTP chunking on SOAP requests.

Wrote a monitoring website that tracked a realtime sync of data between sales and invoicing systems over IBM MQSeries.

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## Skills

### **Preferred Languages**

Ruby, Javascript (ES7+)

### **Frameworks and Libraries**

Redux, React, Ruby on Rails

### **Acronyms and Trigger words**

SQL, OLAP, PGP, HTML, REST,  $\LaTeX$

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## Academics

### **B.S. Computer Science, *North Carolina State University***

2002-2006

Broke an all-time record in Assembly course for writing a program in as few instructions possible

Competed in regional ACM International Collegiate Programming Contest (ACM ICPC)

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## Hacks and Hobbies

### **Tarot, *Game AI for Kingdomino***

2017-09

Wrote a monte carlo tree search implementation to play Kingdomino, similar to Google's AlphaGo bot. Supports multiplayer, which is unique to any MCTS implementation I've seen.

### **Fields of Arle, *Asynchronous Boardgame Website***

2018

Implemented the board game Fields of Arle in the Boardgame.io framework using Functional Programming techniques and React. Contributed improvements back to Boardgame.io framework.