Brian Thompson

SOFTWARE DEVELOPER ENGINEER · MASTERS IN COMPUTER SCIENCE

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Work Experience _____

Amazon Seattle, WA

SOFTWARE DEVELOPER ENGINEER 2 ON AMAZON BUSINESS PERSONALIZATION

July 2018 - PRESENT

- Implemented and ran 27 A/B experiments throughout the website for Business customers.
- Total experiment wins resulted in an increase of \$455 million annualized order purchase sales (OPS)
- Experimentation Bar Raiser for Personalization (Have reviewed over 120 experiments since 2021)
- · Migrated front-end rendering of team's recommenders to new platform built on TypeScript and Kata (html templating language)
- · Implemented multiple recommenders using Python for daily data builds and Java for online processing
- Tech lead for improving pricing discovery for business discount programs throughout the site
- · Led work streams for wholesale theme for AB Personalization roadmap throughout 2021 and 2022
- Coordinated all personalization efforts for 2022 Small Business week event world-wide. Event drove \$485MM in OPS
- · Created first Sponsored Products + organic recommendation blend with business discount programs
- Tech lead for customizing Buy Again Page for Amazon Business customers 2023
- · Built out client and server logic for numerous discount UX features for recommenders on home, detail and buy again pages (TypeScript)
- Created daily builds which compute item similarities and best sellers using various AWS technologies
- Develop features and maintain operational health of our Remote Strategy Service (Coral service built on Apollo and Amazon Linux 2)

Capless Chicago, IL

[STARTUP] CHIEF DATA OFFICER

June 2021 - June 2023

- · Platform that allows startups to intelligently find investors for funding (https://capless.ai), team of three
- Accepted into Product 10X Accelerator (https://product10x.com/startups/)
- Applied to Y Combinator Summer 2022 Batch and advanced to interview stage
- · Created graph-based algorithm and visualization tool to help find co-investors, using Crunchbase investments data
- Created online platform and built out Feed, Profile, Messaging pages
- Technologies used: React and D3 for front-end and graph visualization, AWS tools like lambda, S3, Amplify, Cognito and CDK for backend

Ag-Sensus, LLC

Champaig

IOS Developer for DJI Drone Agriculture Solutions

Champaign, IL Oct. 2016 - May 2018

- · Computed waypoints given a field boundary that guide the drone through flight while it takes measurements
- Wrote code in C++ and Swift that measured crop height via LIDAR in a DJI manifold, sent to the iPad and overlaid the height graph on a map
- · Designed and implemented a user interface allowing farmers to analyze past flight data from multiple fields

The Boeing Company St. Louis, MO

SOFTWARE ENGINEER INTERN ON THE F-15 TRAINING SYSTEMS AND SERVICES TEAM

Summers of 2015 and 2016

- Modified and enhanced F-15 3D model with Blender and imported into X-Plane to be used with the F-15 Trainer
- Rewrote X-Plane plugin written in C++ to receive standardized network packets created by Boeing instead of custom messages

Education

Urbana-Champaign

BS AND MS IN COMPUTER SCIENCE

Aug. 2013 - May. 2018

- Computer Science student in the College of Engineering
- Undergrad GPA: 3.83, Graduate GPA: 4.00

RELEVANT COURSEWORK

Algorithms and Models of Computation, Systems Programming, Data Mining, A.I., Applied Machine Learning, Communication Networks, Computational Photography, Computer Vision, Virtual Reality, Social Sensing, Interactive Computer Graphics, Scientific Visualization, Real-time and Cyber-physical Systems, Embedded Systems

Projects

iOS Apps and Chrome Extensions

HTTPS://GITHUB.COM/BRIANRT

- Text to Buzz: Connects via Bluetooth to a Neosensory Buzz (wrist band with four motors) and maps words to distinct patterns
- · Visaural: Takes frames from a video and converts to a distinct sound using spectrograms, allowing to "see" through audio
- Line Times: App which used crowdsourced entries to display wait times at restaurants and bars on UIUC campus. Swift + Firebase for backend
- Time to Decide: App which allows daily tracking and graphing of simple decisions
- CEO Hunter Chrome Extension: Allows users to retrieve the CEO and their email from a provided company, 700+ users.

Skills_

Languages and Tools Python, Java, Swift, TypeScript, Spark SQL, Ruby, C++, AWS, Firebase, React, D3.js, XCode