

Tate Larkin

tatelarkin@icloud.com | 801.657.1039 | [linkedin.com/in/tate-larkin](https://www.linkedin.com/in/tate-larkin) | github.com/tate8 | tatelarkin.netlify.app

Developer with a passion for Full Stack Web and Mobile Development, Machine Learning, and Data Science. Driven to succeed, learn new skills and contribute to organizational success.

Work Experience

CEO/Founder	BitBlink Solutions - SLC, UT	July 2023 - Present
<ul style="list-style-type: none">BitBlink Solutions is a technology consulting firm providing full stack capabilities for custom software, AI/ML and digitization servicesEngaged by Dirty Dog’s Car Wash, an Atlanta based, private equity backed operator for the de novo build of their proprietary customer engagement and membership appIntegrated with multiple systems including billing, client CRM and back office to provide a seamless end-user experience		
Software Development Contractor	Fresh Consulting - Seattle, WA	June 2022 - January 2023
<ul style="list-style-type: none">Worked directly with the CTO of Fresh Consulting to define parameters, develop an appropriate database schema, and code a Chrome Extension to manage employee SaaS subscriptions by parsing their websites for user emailsReduced company spend on unnecessary subscriptions and improved user complianceContinued work with the CTO to publish a second major release with active use managing 3600+ user accounts on 90+ SaaS sites across the organizationSecurely stored data inside Firebase RTD with UI inside the extension to efficiently manage the dataImplemented seamless OAuth 2.0 authentication for Google and other providersIntegrated the extension with Google Workspace using the Google Directory APIWorked in a CI environment with Bitbucket Pipelines using linting via ESLint and testing via Jasmine		

Selected Projects

AI Powered Flashcards Website - Github
<ul style="list-style-type: none">Created a website to help young kids studying basic vocabulary by detecting images drawn on the site UIDeveloped a ResNet architecture neural network with Nadam optimization using Tensorflow and KerasOptimized the “messy” (10% bad labels) dataset by removing bad training examples using anomaly detection in a reduced dimensionality space. This increased base accuracy by ~5%Trained the model on ~50 million images with 346 unique classesAchieved 92% accuracy on test data, when top 5 predictions considered

Technologies and Languages

<ul style="list-style-type: none">Languages:Data Science / ML:Database Management:Web Development:Mobile Development:Other:	<ul style="list-style-type: none">Python, Java, Javascript, Typescript, HTML, CSSTensorflow, Keras, Scikit Learn, Numpy, Pandas, MatplotlibMySQL, FirebaseReact, Node, Express, Flask, Chrome Extension APIReact Native, Expo, MobXGit, OAuth 2.0, Jasmine
--	---

Education

<ul style="list-style-type: none">University of Utah	Expected graduation May 2026
<ul style="list-style-type: none">○ Coursework includes CS 2420 - Intro Algorithms and Data Structures, MATH 2210 - Multivariable Calculus, MATH 2270 - Linear Algebra	