

# BEN GROSS

8437 Kedvale Ave, Skokie, IL 60076

(217) 972-7918

ben@nutrition.engineering

---

## EDUCATION

Massachusetts Institute of Technology xPRO	Online
Professional Certificate in Coding: Full Stack Development with MERN	December 2021
Purdue University	West Lafayette, IN
MS, Food Science, Computational Science & Engineering	December 2009
University of Illinois	Champaign-Urbana, IL
BS, Chemistry	May 2005

---

## SKILLS

**Back-end:** Cloud Functions, App Engine, Compute Engine, Firebase, CloudSQL, Apps Script, GraphQL

**APIs:** Google Analytics, Authentication and reCaptcha, Stripe, SendGrid

**Front-end:** Angular, Bootstrap, React

---

## WORK EXPERIENCE

<b>Nutrition Engineering, LLC</b>	Skokie, IL
<i>Chief Solutions Architect</i>	2018 – Present

- Developing business, engineering and science apps that drive innovation in academia and industry.
- Leading development of Nutrasheets, a food development and nutrition labeling add on for Google Sheets.
- Helping Google Workspace customers automate business processes and expedite workflows.
- Leveraging Google Cloud Platform to deliver web content, manage users, integrate data, and bill customers.

<b>Morgan Consultants, Inc.</b>	Atlanta, GA
<i>Senior Food Scientist, Process Development Engineer</i>	2018 – 2020

- Developed food processes from benchtop to pilot plant to manufacturing scale.
- Determined process capital scope to meet and exceed financial, food quality and food safety needs.
- Optimized food processes for both new and existing SKUs to maximize profit and quality.

<b>Kellogg Company</b>	Battle Creek, MI
<i>Product Development Scientist</i>	2015 – 2018
<i>Associate Product Development Scientist</i>	2013 – 2015
<i>Assistant Product Development Scientist</i>	2010 – 2013
<i>Pre-professional Intern</i>	2010

- Developed cookies, crackers, fabricated chips, extruded products and snack mixes.
- Formulated nine new retail SKUs leveraging positive nutrition and culinary trends to delight consumers.
- Partnered with marketing and finance to forecast technical and financial feasibility for innovation projects.
- Provided organization-wide subject matter expertise in cracker product development.
- Designed three new school channel SKUs that meet the USDA's stringent nutritional guidelines for the school lunch program generating in excess of \$15 MM sales.
- Developed two new SKUs for Convenience Stores generating in excess of \$5 MM sales.
- Demonstrated throughput increase and quality improvement on baking lines via product reformulation.
- Implemented a \$50MM cost savings / supply chain opportunity across multiple product lines.

**Purdue University***Research Assistant*

West Lafayette, IN

2006-2009

- Created a services-oriented software and hardware architecture that increased data throughput sixteen-fold.
- Integrated embedded network hardware and software to remotely detect 1 ppm arsenite in liquid.
- Isolated and identified microbial pathogens from food using biochemical and immunological techniques.

**Tate and Lyle Company***Analytical Chemistry Intern*

Decatur, IL

2002

- Calibrated process FTIR & NIR instruments for moisture analysis of corn gluten, starches and syrups.
- Developed iodometric method pertaining to propylene oxide modification of corn starches.
- Audited safety standard operating procedures for pilot plant operations.

**PUBLICATIONS**

---

Nutrasheets leverages Google Cloud Platform to deliver 4x faster access to food data

Published 5-20-21 on LinkedIn

Google Cloud Powers Addition of 500+ Food Components to Nutrasheets

Published 12-17-20 on LinkedIn

Nutrasheets Brings Dual-Column Nutrition Facts and Ingredient Statements to Google Sheets

Published 11-18-20 on LinkedIn

Nutrasheets Adds USDA Food Data Central, Drops Google Drive, Launches in India

Published 12-9-19 on LinkedIn

Nutrasheets Brings Food Formulation and Nutrition Labeling to Google Cloud Platform

Published 10-31-19 on LinkedIn

**WORK SAMPLES**

---

[www.nutrasheets.com](http://www.nutrasheets.com)[benjamingro.github.io](https://benjamingro.github.io)[workspace.google.com/marketplace/app/nutrasheets/561596970235](https://workspace.google.com/marketplace/app/nutrasheets/561596970235)[github.com/benjamingro](https://github.com/benjamingro)**PRESENTATIONS**

---

*Electrochemical-Based Whole Cell Biosensor System using Pyocyanin as a Reporter Signal*

Pittcon Analytical Chemistry Conference

Chicago, IL 2009

*Development of a multichannel test bed for screening and distributing bioreporter-based chemical sensors*

Center for Food Safety Engineering Conference

West Lafayette, IN 2007

*Remote sensing of agricultural contaminants using biosensor networks over TCP/IP*

American Chemical Society Conference

Chicago, IL 2007

**HIGHLIGHTS**

---

Kellogg Moonlighting Product Development Award, 1<sup>st</sup> Place (2010, 2012, 2014)

Kellogg Push Forward Commercialization Award (2012, 2013, 2014)

Kellogg Research Quality &amp; Technology Academy, Snacks 201, Instructor (2013 - 2015)

Kellogg International Technical Symposium, Presenter (2013)

Kellogg K-Values Formal Award Winner, 3<sup>rd</sup> Place (2012)

Purdue Graduate Student Government, Senator (2007-2008)