Jeff T. Kaufman < jeff@jefftk.com>

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WORK EXPERIENCE

SecureBio

Co-Lead (Near-Term Detection)

6.2022-present

- Lead team building an early warning system to detect novel pandemics
- Analyze metagenomic sequencing data from wastewater and nasal swabs
- Model the efficacy of monitoring system designs in pandemic detection

Google

Staff Software Engineer

9.2017-6.2022

- · Optimize ad loading and rendering
- Work with Chrome on new APIs for ads
- Manage team of four engineers

Wave

Senior Software Engineer

1.2017-6.2017

- · Develop back-end software for mobile money transfer
- Analyze performance and reliability

Google

Senior Software Engineer

4.2012-1.2017

- Develop mod_pagespeed web optimization software
- Port mod_pagespeed to the Nginx web server

CogoLabs

Software Engineer

12.2010-4.2012

- Create websites for new incubated businesses with Ruby on Rails
- Optimize designs with A/B testing

BBN Technologies

Associate Scientist

9.2008-12.2010

- Write tools for manipulating and validating language annotation
- Assist in research in automatic parsing, semantic role labeling, word sense tagging, and coreference resolution

EDUCATION

Swarthmore College

- Degree: BA in Computer Science and Linguistics with High Honors
- Courses included: Natural Language Processing, Artificial Intelligence,
 Distributed Systems, Linear Algebra, Multi-variable Calculus, Discrete Math

SKILLS AND COMPUTER EXPERIENCE

- Languages: Python, C, C++, Java, JavaScript, bash, HTML, SQL.
- Systems: GNU/Linux (Ubuntu, Debian, Red Hat), Windows, Macintosh

PUBLICATIONS

- Liu et al. 2025 METAGENE-1: Metagenomic Foundation Model for Pandemic Monitoring (arXiv preprint).
- *Grimm et al.* 2023 Inferring the sensitivity of wastewater metagenomic sequencing for virus detection and monitoring (*medRxiv preprint*).
- Weischedel et al. 2013 OntoNotes Release 5.0 (Linguistic Data Consortium).
- Weischedel et al. 2011 OntoNotes Release 4.0 (Linguistic Data Consortium).