

TRAVIS JOHANSEN

Vice President of Operations and Technology

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SUMMARY

Innovative and detail-oriented **software engineer with 11 years of experience** designing and implementing full-stack ASP.NET applications using C#, MSSQL, Razor, JavaScript, CSS, HTML, GitHub, and Azure. Proficient in creating user-friendly GUIs, applying software design patterns, provisioning virtual machines, ensuring database integrity, modernizing legacy systems, debugging with "fail loudly" principles, analyzing systems, streamlining data workflows, integrating API hooks, reducing memory footprints, improving time complexity, and maintaining optimal uptime.

EXPERIENCE

Vice President of Operations and Technology

Tissue-Grown Corporation

01/1999 - Present Santa Paula, CA

- Developed **Plant Depository**, handling all stages from concept to execution and balancing short-term deliverables with long-term innovation, resulting in an 800% increase in project capacity.
- Engineered a **force-directed cyclic graph algorithm** to solve complex pathfinding and data modeling, reducing production planning time by 90%.
- Designed and developed user-friendly GUIs for enterprise-grade applications utilized in dozens of biotechnology laboratories.
- Designed and implemented a physical labeling system that connected real-world products to virtual data, supporting the production and management of over 100 million plants.
- Designed and implemented SaaS tools and applications that directly enabled the production and management of over 100 million plants.
- Progressively **checked in over a million lines of code**, demonstrating a strong commitment to technical delivery and product evolution.

Founder and CEO

ulnfinity

2016 - Present Santa Barbara, CA

Social media platform

- Achieved 90% reduction in scaling costs by integrating onsite hardware.
- Designed, founded, and implemented ulnfinity.
- Utilized a Braintree payments integration for ease-of-use onboarding.

EDUCATION

Bachelor of Science in Computer Science

Hawaii Pacific University

09/2009 - 12/2010 Honolulu, HI

Associate of Science in Computer Science

Santa Barbara City College

01/2006 - 12/2008 Santa Barbara, CA

Associate of Arts in Mathematics

Santa Barbara City College

01/2006 - 12/2008 Santa Barbara, CA

LANGUAGES

English

Native



Spanish

Intermediate



KEY ACHIEVEMENTS

Algorithmic Development

- Developed a **novel algorithm** for solving force-directed cyclic graphs, reducing production planning time by 90%.
- Coded the model architecture for **GPT-2 in C#** then trained on a provisioned Azure A100 VM.
- Implemented a **multi-threaded query solution** reducing database load times by 75% and increasing data loading capacity by 400%.

Plant Depository

Designed Plant Depository, an Enterprise SaaS platform that transformed laboratory production tracking and forecasting, increasing scheduling windows by 2 years and allowing for over 100M plants to be tracked.

Corporate Growth

Achieved a \$50M (1200%) increase in revenues and a 500% growth in personnel through strategic contract negotiations and successful product delivery.

SKILLS

Executive Leadership

Full Stack Development

Agile Development

ASP.NET Core

C#

SQLite

JavaScript

Razor

Debugging

GUI

AI

Cross-Functional Collaboration

DevOps

Model Training

Model Architecture

Usability Testing

User Testing

Requirements Analysis

Instrumentation

VOLUNTEERING

User / Content Creator

Stack Overflow

2013 - Present

Top 0.003% of users, with 82k+ reputation and 20M+ users reached.

AWARDS

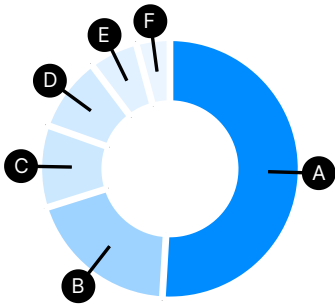


Dean's List, Hawaii Pacific University



2nd Place 34th annual chess World Open U1400

MY TIME



- A Family
- B Coding
- C Gaming
- D Exercising
- E Tinkering
- F Travelling

PASSIONS

Artificial Intelligence

I have spent 20 years being fascinated by algorithms. I recently implemented a transformer in `c#` for enterprise use. Furthermore, I am very interested in making a next generation tokenizer that surpasses the WordPiece algorithm.

Travelling

I love to travel. So far I have been to 14 countries outside the US and to 15 states. Some of my favorite places are in the tropics, world wonders, and historical landmarks. In 2004, I travelled across Europe interviewing automation companies.

Sports

I have played organized sports for most of my life, and enjoy the competition and teamwork involved. I even played soccer in college at SBCC. Recently I either bike or play tennis.

Gaming

I enjoy playing games during some of my downtime. The games I enjoy most are those which combine teamwork and problem solving. Recently I have been playing Rocket League, Forza, and chess.