<!DOCTYPE html>

```html
<meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
<title>Gurinder Singh - Staff iOS & AI/ML Engineer</title>
<link rel="stylesheet" href="https://cdnjs.cloudflare.com/ajax/libs/font-
awesome/6.5.1/css/all.min.css">
<script src="https://cdn.tailwindcss.com"></script>
<style>
    @import url("https://fonts.googleapis.com/css2?
family=Poppins:wght@300;400;500;600;700&display=swap");

    :root {
        --primary-color: #008080; /* Teal */
        --secondary-color: #004D4D;
        --text-color: #333;
        --bg-color: #fff;
        --container-bg: #f5f5f5;
    }

    body {
        font-family: "Poppins", sans-serif;
        background-color: var(--container-bg);
        color: var(--text-color);
        font-size: 10pt;
    }

    .page {
        width: 8.5in;
        min-height: 11in;
        margin: 2rem auto;
        padding: 0.75in;
        background-color: var(--bg-color);
        box-shadow: 0 4px 12px rgba(0, 0, 0, 0.1);
        position: relative;
    }

    .page-break {
        page-break-before: always;
    }

    .header {
        display: flex;
        align-items: center;
        justify-content: space-between;
        margin-bottom: 2rem;
        padding-bottom: 1.5rem;
```

```css
    border-bottom: 2px solid var(--primary-color);
}

.header-left {
    display: flex;
    align-items: center;
}

.profile-img {
    width: 100px;
    height: 100px;
    border-radius: 50%;
    object-fit: cover;
    margin-right: 1.5rem;
    border: 3px solid var(--primary-color);
}

.header-left h1 {
    font-size: 28pt;
    font-weight: 700;
    color: var(--secondary-color);
    margin-bottom: 0.25rem;
}

.header-left .title {
    font-size: 14pt;
    font-weight: 500;
    color: var(--primary-color);
}

.contact-info {
    text-align: right;
}

.contact-info a {
    color: var(--text-color);
    text-decoration: none;
    font-size: 9pt;
    display: flex;
    align-items: center;
    margin-bottom: 0.5rem;
    transition: color 0.3s ease;
}

.contact-info a:hover {
    color: var(--primary-color);
```

```css
        }

        .contact-info i {
            color: var(--primary-color);
            margin-right: 0.5rem;
            width: 16px;
            text-align: center;
        }

        .qr-code {
            width: 80px;
            height: 80px;
            margin-top: 1rem;
        }

        .section {
            margin-bottom: 2rem;
        }

        .section-title {
            font-size: 16pt;
            font-weight: 600;
            color: var(--secondary-color);
            margin-bottom: 1rem;
            text-transform: uppercase;
            letter-spacing: 1.5px;
            border-bottom: 1px solid #ddd;
            padding-bottom: 0.5rem;
        }

        .summary p {
            font-size: 10.5pt;
            line-height: 1.7;
        }

        .skills-grid {
            display: grid;
            grid-template-columns: repeat(2, 1fr);
            gap: 1.5rem;
        }

        .skill-category {
            background-color: #f9f9f9;
            padding: 1.5rem;
            border-radius: 10px;
            border-left: 4px solid var(--primary-color);
```

```css
}

.skill-category-title {
    font-size: 11pt;
    font-weight: 600;
    color: var(--secondary-color);
    margin-bottom: 1rem;
    display: flex;
    align-items: center;
}

.skill-category-title i {
    margin-right: 0.75rem;
    color: var(--primary-color);
}

.skill-list {
    font-size: 9.5pt;
    line-height: 1.8;
}

.job {
    margin-bottom: 2rem;
    padding-left: 1.5rem;
    border-left: 3px solid var(--primary-color);
}

.job-header {
    display: flex;
    justify-content: space-between;
    align-items: baseline;
    margin-bottom: 0.25rem;
}

.job-title {
    font-size: 12pt;
    font-weight: 700;
}

.job-company {
    font-size: 11pt;
    font-weight: 500;
    color: var(--primary-color);
    display: flex;
    align-items: center;
}
```

```css
.job-company i {
    margin-right: 0.5rem;
}

.job-period {
    font-size: 9pt;
    font-weight: 500;
    color: #777;
}

.job ul {
    list-style-type: none;
    padding-left: 0;
    margin-top: 1rem;
}

.job li {
    margin-bottom: 0.75rem;
    position: relative;
    padding-left: 1.2rem;
}

.job li::before {
    content: "\25B8";
    position: absolute;
    left: 0;
    top: 2px;
    color: var(--primary-color);
    font-size: 8pt;
}

.detailed-skills-section {
    columns: 2;
    gap: 2rem;
}

.detailed-skill-category {
    break-inside: avoid;
    margin-bottom: 1.5rem;
}

@media print {
    body {
        background-color: white;
    }
```

```
        .page {
            margin: 0;
            box-shadow: none;
        }
    }
</style>
```

```html
<div class="page">
    <div class="header">
        <div class="header-left">
            <img src="/home/ubuntu/me_ghibli.png" alt="Gurinder Singh"
class="profile-img">
            <div>
                <h1>Gurinder Singh</h1>
                <div class="title">Staff iOS & AI/ML Engineer</div>
            </div>
        </div>
        <div class="contact-info">
            <a href="https://guriboy-6fupko.manus.space"><i class="fas fa-
globe"></i>guriboy-6fupko.manus.space</a>
            <a href="https://www.linkedin.com/in/gurinder-singh-gs/"><i
class="fab fa-linkedin"></i>linkedin.com/in/gurinder-singh-gs</a>
            <a href="mailto:gsingh622@yahoo.com"><i class="fas fa-envelope">
</i>gsingh622@yahoo.com</a>
            <img src="https://api.qrserver.com/v1/create-qr-code/?
size=150x150&data=https://guriboy-6fupko.manus.space" alt="Portfolio QR
Code" class="qr-code">
        </div>
    </div>

    <div class="section summary">
        <h2 class="section-title">Career Summary</h2>
        <p>Staff iOS & AI/ML Engineer with over a decade of experience
scaling applications for millions of users. Patent-holder and technical
leader specializing in bridging cutting-edge AI/ML with practical mobile
solutions. Proven track record of building legendary apps at global scale,
from startup innovation to enterprise solutions serving 90M+ users
worldwide. Passionate about mentoring engineers, conducting technical
interviews, and fostering inclusive tech communities while driving
innovation at the intersection of iOS and artificial intelligence.</p>
    </div>

    <div class="section">
        <h2 class="section-title">Core Skills</h2>
        <div class="skills-grid">
            <div class="skill-category">
                <h3 class="skill-category-title"><i class="fas fa-code">
</i>Languages & Frameworks</h3>
                <div class="skill-list">Swift, SwiftUI, Python, TypeScript,
Next.js, FastAPI, Vapor, Objective-C, Flutter/Dart</div>
            </div>
            <div class="skill-category">
```

```html
                <h3 class="skill-category-title"><i class="fas fa-robot">
</i>AI/ML Stack</h3>
                <div class="skill-list">LLM Agents, RAG Pipelines,
LlamaIndex, Supabase, ChromaDB, Pinecone, Core ML, MLX, LoRA, Stable
Diffusion</div>
            </div>
            <div class="skill-category">
                <h3 class="skill-category-title"><i class="fas fa-mobile-
alt"></i>Mobile Systems</h3>
                <div class="skill-list">ActivityKit, WidgetKit, Dynamic
Island, SwiftData, Realm, Combine, UIKit, Async/Await</div>
            </div>
            <div class="skill-category">
                <h3 class="skill-category-title"><i class="fas fa-cloud">
</i>Cloud & Infrastructure</h3>
                <div class="skill-list">Supabase Edge Functions, Docker,
RunPod, DataDog, AWS Serverless, Lambda, DynamoDB</div>
            </div>
        </div>
    </div>

    <div class="section">
        <h2 class="section-title">Professional Experience</h2>
        <div class="job">
            <div class="job-header">
                <div class="job-title">Staff iOS Engineer &rarr; Applied
AI/ML Engineer</div>
                <div class="job-period">2020 - Present</div>
            </div>
            <div class="job-company"><i class="fab fa-paypal"></i>PayPal /
Venmo</div>
            <ul>
                <li>Built PayPal/Venmo's first <strong>applied agentic AI
platform</strong> for autonomous merchant onboarding</li>
                <li>Pioneered AI image generation with custom SDXL LoRA
models producing professional imagery in ~30 seconds, <strong>saving
merchants $100-500 per product</strong></li>
                <li>Delivered <strong>first org-wide MCP
integration</strong> for seamless AI agent orchestration</li>
                <li>Achieved <strong>58.5 GPU hours training, 23% loss
reduction</strong>, 109MB production-ready model</li>
            </ul>
        </div>
        <div class="job">
            <div class="job-header">
                <div class="job-title">iOS Developer/Consultant</div>
```

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                <div class="job-period">July 2019 - 2020</div>
            </div>
            <div class="job-company"><i class="fab fa-google"></i>Google
Stadia</div>
            <ul>
                <li>Worked on Google Stadia for mobile platforms in
Flutter/Dart</li>
                <li>Leveraged iOS expertise for native plugins and crash
debugging</li>
            </ul>
        </div>
        <div class="job">
            <div class="job-header">
                <div class="job-title">iOS Developer/Consultant</div>
                <div class="job-period">April 2018 - July 2019</div>
            </div>
            <div class="job-company"><i class="fas fa-university"></i>Morgan
Stanley</div>
            <ul>
                <li>Hybrid Banking and Wealth Management apps for iOS</li>
                <li>Key features: check-deposit, <strong>biometric
authentication</strong>, certificate-pinning, jailbreak detection</li>
            </ul>
        </div>
    </div>
</div>

<div class="page page-break">
    <div class="section detailed-skills-section">
        <h2 class="section-title">Detailed Technical Skills</h2>

        <div class="detailed-skill-category">
            <h3 class="skill-category-title"><i class="fas fa-code">
</i>Languages & Frameworks</h3>
            <p class="skill-list">Swift, SwiftUI, Objective-C, Python,
JavaScript, TypeScript, Node.js, Express.js, FastAPI, Vapor, Flutter/Dart,
Next.js, React, React Native, HTML5, CSS3, GraphQL, RESTful API Design</p>
        </div>

        <div class="detailed-skill-category">
            <h3 class="skill-category-title"><i class="fas fa-robot">
</i>Applied AI/ML & Intelligent Systems</h3>
            <p class="skill-list">LLM & Agentic Workflows: LangChain,
LlamaIndex, RAG Pipelines, MCP Servers, CrewAI, LangFlow, Prompt
Engineering, Function/Tool Calling, CustomGPT Actions, Multi-Agent
Orchestration<br>
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Models & Frameworks: PyTorch, TensorFlow (familiarity), Core ML, MLX, scikit-learn, Stable Diffusion, LoRA Fine-Tuning, Whisper-MLX, Hugging Face Transformers, Cohere, OpenAI APIs, Claude API, OpenRouter, Ollama, LM Studio

Vectors & Embeddings: ChromaDB, Pinecone, Qdrant, DeepLake, Dense + Sparse Retrieval, Semantic Search, Hybrid Indexing, Reranking

Specialized AI: Computer Vision & Image Processing, NLP, Speech Processing, Image / Audio Generation Pipelines, ComfyUI, ElevenLabs

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        </div>

        <div class="detailed-skill-category">
            <h3 class="skill-category-title"><i class="fas fa-database">
</i>Data Science & Analytics</h3>
            <p class="skill-list">Pandas, NumPy, Feature Engineering, Data
Architecture, Model Evaluation, A/B Testing, Experimentation<br>
```

Databases & Storage: PostgreSQL, Supabase, SQLite, NoSQL, DynamoDB, Firestore, MongoDB, Realm, SwiftData, Cosmos DB, Redis, Vector DBs (ChromaDB, Pinecone, Qdrant, DeepLake)

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        </div>

        <div class="detailed-skill-category">
            <h3 class="skill-category-title"><i class="fas fa-mobile-alt">
</i>Mobile Development (iOS + Cross-Platform)</h3>
            <p class="skill-list">iOS SDK, SwiftUI, UIKit, ActivityKit,
WidgetKit, ARKit, Core Data, Core Location, Core ML Integration, On-Device
Inference, SwiftData, Realm, Combine, RxSwift, BLE, XCTest, Snapshot
Testing, Swift Package Manager, Flutter SDK, React Native, Cordova</p>
        </div>

        <div class="detailed-skill-category">
            <h3 class="skill-category-title"><i class="fas fa-cloud">
</i>Cloud Platforms & Infrastructure</h3>
            <p class="skill-list">Amazon Web Services (AWS): Lambda,
DynamoDB, EC2, S3, CloudFront, API Gateway, SageMaker, Amplify, CloudWatch,
IAM, Cognito<br>
```

Google Cloud Platform (GCP): Vertex AI, Cloud Functions, Cloud Run, BigQuery, Firebase, Firestore, Cloud Storage, Vision AI, Speech-to-Text, Cloud SQL

Microsoft Azure: Azure AI Services, Cognitive Search, Azure Functions, AI Cloud Foundry, Azure OpenAI Service, Cosmos DB, Azure DevOps, Azure Pipelines

DigitalOcean: App Platform, Droplets, Spaces, Functions, Containers

Supabase: Edge Functions, PostgreSQL DB, Auth, Realtime Subscriptions, Storage, pgvector

Firebase: Cloud Functions, Firestore, Realtime DB, Authentication, FCM, Crashlytics, Hosting

Vercel & Others: Vercel, Railway, Netlify, RunPod, Replicate

Architecture: Multi-Cloud & Hybrid Compute, Microservices, Serverless / Edge Infrastructure, NGINX

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        </div>

        <div class="detailed-skill-category">
            <h3 class="skill-category-title"><i class="fas fa-tools">
</i>DevOps & Tooling</h3>
            <p class="skill-list">Docker, Docker Compose, Kubernetes, Git,
GitHub Actions, Artifactory, Jenkins, Fastlane, CI/CD Pipelines, DataDog
(RUM, iOS SDK Integration, APM, Logs, Dashboards), SonarQube, Amplitude,
Optimizely, Crashalytics, Firebase Analytics</p>
        </div>
    </div>
</div>
```